

# STR-V333ES/V444ES/ V555ES

## SERVICE MANUAL

Ver 1.2 2002.01




Photo: STR-V444ES

*US Model*  
*Canadian Model*  
STR-V333ES/V444ES/V555ES  
*AEP Model*  
*UK Model*  
*E Model*  
*Australian Model*  
*Chinese Model*  
*PX Model*  
STR-V555ES

This receiver incorporates Dolby\* Digital and Dolby Pro Logic Surround and the DTS\*\* Digital Surround System.

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### SPECIFICATIONS

#### AUDIO POWER SPECIFICATIONS

**POWER OUTPUT AND TOTAL HARMONIC DISTORTION:**  
With 8 ohm loads, both channels driven, from 20 - 20,000 Hz; rated 120 watts per channel minimum RMS power, with no more than 0.05 % total harmonic distortion from 250 milliwatts to rated output (US model only).

#### Amplifier section

##### POWER OUTPUT

STR-V555ES

##### Models of area code UC

##### Rated Power Output at Stereo Mode

(8 ohms 20 Hz – 20 kHz, THD 0.05 %)

120 W + 120 W

(4 ohms 20 Hz – 20 kHz, THD 0.09 %)

100 W + 100 W

##### Reference Power Output

(8 ohms 20 Hz – 20 kHz, THD 0.05 %)

FRONT <sup>1)</sup>:

120 W + 120 W

CENTER <sup>1)</sup>: 120 W  
REAR <sup>1)</sup>:  
120 W + 120 W  
(4 ohms 20 Hz – 20 kHz, THD 0.09 %)  
FRONT <sup>1)</sup>:  
100 W + 100 W  
CENTER <sup>1)</sup>: 100 W  
REAR <sup>1)</sup>:  
100 W + 100 W

##### Models of other area code

##### Rated Power Output at Stereo Mode

(8 ohms 1 kHz, THD 0.7 %)

120 W + 120 W <sup>2)</sup>

110 W + 110 W <sup>3)</sup>

(4 ohms 1 kHz, THD 0.7 %)

100 W + 100 W <sup>2)</sup>

90 W + 90 W <sup>3)</sup>

##### Reference Power Output <sup>2)</sup>

(8 ohms 1 kHz, THD 0.7 %)

FRONT <sup>1)</sup>:

120 W + 120 W

CENTER <sup>1)</sup>: 120 W

REAR <sup>1)</sup>:

120 W + 120 W

(4 ohms 1 kHz, THD 0.7 %)

FRONT <sup>1)</sup>:

100 W + 100 W

CENTER <sup>1)</sup>: 100 W  
REAR <sup>1)</sup>:  
100 W + 100 W  
(8 ohms 20 Hz – 20 kHz, THD 0.05 %)  
FRONT <sup>1)</sup>:  
100 W + 100 W  
CENTER <sup>1)</sup>: 100 W  
REAR <sup>1)</sup>:  
100 W + 100 W  
(4 ohms 20 Hz – 20 kHz, THD 0.09 %)  
FRONT <sup>1)</sup>:  
90 W + 90 W  
CENTER <sup>1)</sup>: 90 W  
REAR <sup>1)</sup>:  
90 W + 90 W

1) Depending on the sound field settings and the source, there may be no sound output.

2) Measured under the following conditions:

Area code	Power requirements
TW	110 V AC, 60 Hz
CN, CED	230 V AC, 50 Hz

3) Measured under the following conditions:

Area code	Power requirements
CN	220 V AC, 50 Hz

— Continued on next page —

## FM STEREO FM-AM RECEIVER

9-929-297-13  
2002A0200-1  
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**Sony Corporation**

Home Audio Company

Published by Sony Engineering Corporation

# SONY®

STR-V333ES/V444ES

#### Rated Power Output at Stereo Mode

(8 ohms 20 Hz – 20 kHz, THD 0.05 %)

STR-V444ES 120 W + 120 W

STR-V333ES 110 W + 110 W

(4 ohms 20 Hz – 20 kHz, THD 0.09 %)

STR-V444ES 100 W + 100 W

STR-V333ES 90 W + 90 W

#### Reference Power Output

(8 ohms 20 Hz – 20 kHz, THD 0.05 %)

STR-V444ES FRONT <sup>1)</sup>:

120 W + 120 W

CENTER <sup>1)</sup>: 120 W

REAR <sup>1)</sup>:

120 W + 120 W

STR-V333ES FRONT <sup>1)</sup>:

110 W + 110 W

CENTER <sup>1)</sup>: 110 W

REAR <sup>1)</sup>:

110 W + 110 W

(4 ohms 20 Hz – 20 kHz, THD 0.09 %)

STR-V444ES FRONT <sup>1)</sup>:

100 W + 100 W

CENTER <sup>1)</sup>: 100 W

REAR <sup>1)</sup>:

100 W + 100 W

STR-V333ES FRONT <sup>1)</sup>:

90 W + 90 W

CENTER <sup>1)</sup>: 90 W

REAR <sup>1)</sup>:

90 W + 90 W

#### Frequency response

PHONO: RIAA

equalization curve

±0.5 dB

CD, TAPE, MD/DAT,

DVD/LD, TV/SAT,

VIDEO 1, 2, and

VIDEO 3:

10 Hz – 100 kHz

+0.5/-3 dB (with

sound field and

equalizer bypassed)

#### Inputs (Analog)

PHONO:

Sensitivity: 2.5 mV

Impedance:

50 kilohms

S/N <sup>4)</sup>: 86 dB

(A, 2.5 mV<sup>5)</sup>)

5.1CH INPUT, CD,

TAPE, MD/DAT,

DVD/LD, TV/SAT,

VIDEO 1, 2, and

VIDEO 3:

Sensitivity: 150 mV

Impedance:

50 kilohms

S/N <sup>4)</sup>: 96 dB

(A, 150 mV<sup>5)</sup>)

*1) Depending on the sound field settings and the source, there may be no sound output.*

*4) INPUT SHORT*

*5) Weighted network, input level*

#### Inputs (Digital)

DVD/LD IN, CD IN

(STR-V444ES,

STR-V555ES)

(Coaxial):

Sensitivity: –

Impedance: 75 ohms

S/N: 100 dB

(A, 20 kHz LPF)

DVD/LD IN, TV/SAT

IN, CD IN, MD/

DAT IN (Optical):

Sensitivity: –

Impedance: –

S/N: 100 dB

(A, 20 kHz LPF)

#### Outputs (Analog)

TAPE, MD/DAT (REC

OUT); VIDEO 1, 2

(AUDIO OUT), 2ND

AV (STR-V444ES,

STR-V555ES),

2ND AUDIO

(STR-V333ES):

Voltage: 150 mV,

Impedance:

1 kilohms

FRONT L/R, CENTER,

REAR L/R,

SUB WOOFER:

Voltage: 2 V

Impedance:

1 kilohms

PHONES:

Accepts low- and

high-impedance

headphones

#### Outputs (Digital)

MD/DAT (Optical)

#### Sampling Frequency

48 kHz

#### EQ

BASS:

99 Hz~1.0 kHz

(21 steps)

MID:

198 Hz~10 kHz

(37 steps)

TREBLE:

1.0 kHz~10 kHz

(23 steps)

Gain levels:

±10 dB, 1 dB step

#### FM tunersection

**Tuningrange** 87.5 - 108.0 MHz

#### Antenna terminals

75 ohms, unbalanced

**Sensitivity** Mono: 18.3 dBf,  
2.2 µV/75 ohms  
Stereo: 38.3 dBf,  
22.5 µV/75 ohms

#### Usable sensitivity

11.2 dBf, 1 µV/75 ohms

#### S/N

Mono: 76 dB

Stereo: 70 dB

#### Harmonic distortion at 1 kHz

Mono: 0.3%

Stereo: 0.5%

**Separation** 45 dB at 1 kHz

#### Frequencyresponse

30 Hz – 15 kHz

+0.5/-2 dB

**Selectivity** 60 dB at 400 kHz

## AM tuner section

### Tuningrange

STR-V333ES, STR-V444ES

With 10-kHz tuning

scale:

530 – 1710 kHz <sup>6)</sup>

With 9-kHz tuning

scale:

531 – 1710 kHz <sup>6)</sup>

STR-V555ES

Models of area code UC

With 10-kHz tuning

scale:

530 – 1710 kHz <sup>6)</sup>

With 9-kHz tuning

scale:

531 – 1710 kHz <sup>6)</sup>

Models of area code CN, CED, TW, E

With 9-kHz tuning

scale:

531 – 1602 kHz

**Antenna** Loop antenna

### Usable sensitivity

50 dB/m (at 1,000 kHz  
or 999 kHz)

**S/N** 54 dB (at 50 mV/m)

### Harmonicdistortion

0.5 % (50 mV/m,  
400 kHz)

**Selectivity** At 9 kHz: 35 dB  
At 10 kHz: 40 dB

<sup>6)</sup> (US, Canadian, E, Taiwan only)

You can change the AM tuning scale to 10 kHz ↔ 9 kHz. After tuning in any AM station, turn off the receiver. Hold down the TUNING + button and press the I/⏏ button. All preset stations will be erased when you change the tuning scale. To reset the scale to 10 kHz (or 9 kHz), repeat the procedure.

## Video section

### Inputs

Video: 1 Vp-p 75 ohms

S-video:

Y: 1 Vp-p 75 ohms

C: 0.286 Vp-p

75 ohms

Component video

(STR-V444ES,

STR-V555ES):

Y: 1 Vp-p 75 ohms

B-Y: 1 Vp-p 75 ohms

R-Y: 1 Vp-p 75 ohms

### Outputs

Video: 1 Vp-p 75 ohms

S-video:

Y: 1 Vp-p 75 ohms

C: 0.286 Vp-p

75 ohms

Component video

(STR-V444ES,

STR-V555ES):

Y: 1 Vp-p 75 ohms

B-Y: 1 Vp-p 75 ohms

R-Y: 1 Vp-p 75 ohms

## General

### System

Tuner section:

PLL quartz-locked  
digital synthesizer  
system

Preamplifier section:

Low-noise NF type  
equalizer

Power amplifier  
section:

Pure-complementary  
SEPP

### Power requirements

STR-V333ES, STR-V444ES

120 V AC, 60 Hz

STR-V555ES

Models of area code UC

120 V AC, 60 Hz

Models of area code

CED

230 V AC, 50/60 Hz

Models of area code CN

220 – 230 V AC,

50/60 Hz

Models of area code E

120/220/240 V AC,

50/60 Hz

Models of area code

TW

110 V AC, 60 Hz

## Power consumption

STR-V555ES

Models of area code UC

420 W

Models of area code

CED, CN

370 W

Models of area code

E, TW

420 W

STR-V444ES

420 W

STR-V333ES

410 W

## AC outlets

STR-V555ES

Models of area code UC

2 switched,

total 120 W/1A

Models of area code

CED

1 switched,

total 100 W

Models of area code

E, CN, TW

2 switched,

total 100 W

STR-V333ES, STR-V444ES

2 switched,

total 120 W/1A

**Dimensions** 430 × 175 × 405 mm  
(17 × 7 × 16 in.)  
including projecting  
parts and controls

## Mass (Approx.)

STR-V444ES, STR-V555ES

17.0 kg (37 lb 8 oz)

STR-V333ES

16.0 kg (35 lb 4 oz)

Supplied accessories  
STR-V333ES/444ES

- FM wire antenna (1)
- AM loop antenna (1)
- Audio/video/control S connecting cord (1)
- Control S connecting cord (1)
- Remote commander RM-LJ304 (remote) (1)
- LR6 (size-AA) alkaline batteries (3)

STR-V444ES only

- Remote commander RM-US104 (remote) (1)
- R6 (size-AA) batteries (2)

STR-V555ES

- FM wire antenna (1)
- AM loop antenna (1)
- Remote commander RM-TP504 (remote) (1)
- LR6 (size-AA) alkaline batteries (4)
- Coin shaped lithium battery (CR-2032) (1)

Models of area code UC only

- Audio/video/control S connecting cord (1)
- Control S connecting cord (1)
- Remote commander RM-US104 (remote) (1)
- R6 (size-AA) batteries (2)

Area Code

For details on the area code of the component you are using, see Fig. 1.

UC: US, Canadian model

CED: AEP, UK, East European, CIS, Australian, malaysia, Singapole, Hong Kong model

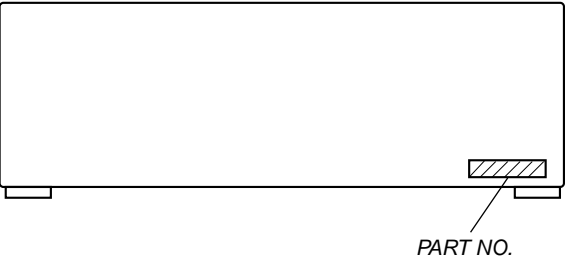
E: E, Saudi Arabia, PX model

TW: Taiwan model

CN: Chinese model

Design and specifications are subject to change without notice.

**MODEL IDENTIFICATION**  
– BACK PANEL –



MODEL	PARTS No.
V555ES: US, CND, E, PX, EA model	4-228-819-0□
V444ES model	4-228-819-1□
V333ES model	4-228-819-2□
V555ES: AEP, UK, CIS, AUS, MY, SP, EE, HK model	4-228-819-3□
V555ES: CH model	4-228-819-5□
V555ES: TW model	4-228-819-6□

- Abbreviation  
CND : Canadian model  
AUS : Australian model  
CH : Chinese model  
EE : East European model  
EA : Saudi Arabia model  
SP : Singapore model  
TW : Taiwan model  
MY : Malaysia model  
HK : Hong Kong model

**AREA CODE**

**About area codes**

The area code of the receiver you purchased is shown on the lower portion of the rear panel (see the illustration below).

4-XXX-XXX-XX AA  
Area code

Any differences in operation, according to the area code, are clearly indicated in the text, for example, "Models of area code AA only".

Fig. 1

**SAFETY-RELATED COMPONENT WARNING!!**

**COMPONENTS IDENTIFIED BY MARK △ OR DOTTED LINE WITH MARK △ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.**

**ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!**

**LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE △ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.**



## SAFETY CHECK-OUT (US model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer: Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

### LEAKAGE

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The “limit” indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

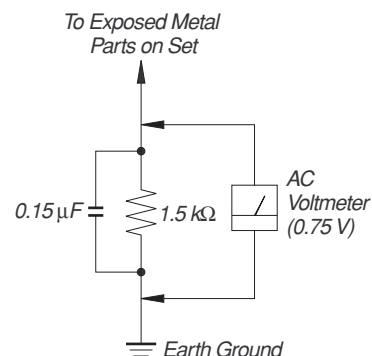


Fig. A. Using an AC voltmeter to check AC leakage.

### Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

## • CHANGE OF BOARDS

Printed wiring boards have been changed.

Printed wiring boards and schematic diagrams of new type, and changed parts list are described in this service manual

### NEW TYPE IDENTIFICATION

Model	Destination	FORMER TYPE Serial number	NEW TYPE Serial number
STR-V333ES	US,CND	8,804,451 to 8,806,754	8,806,755 and later
STR-V444ES	US,CND	8,806,228 to 8,808,351	8,808,352 and later
STR-V555ES	US,CND	8,804,862 to 8,806,241	8,806,242 and later
STR-V555ES	AEP,UK,AUS (MY,SP,HK,CIS,EE)	55,502,861 to 5,504,150	5,504,151 and later
STR-V555ES	E2 (PX,EA)	4,400,001 to 4,400,010	4,400,011 and later
STR-V555ES	E3 (PX,EA)	3,300,001 to 3,300,209	3,300,210 and later
STR-V555ES	TW,CH	—	From first production

- Abbreviation  
CND : Canadian model  
AUS : Australian model  
CH : Chinese model  
EE : East European model  
EA : Saudi Arabia model  
SP : Singapore model  
TW : Taiwan model  
MY : Malaysia model  
HK : Hong Kong model

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### NEW TYPE

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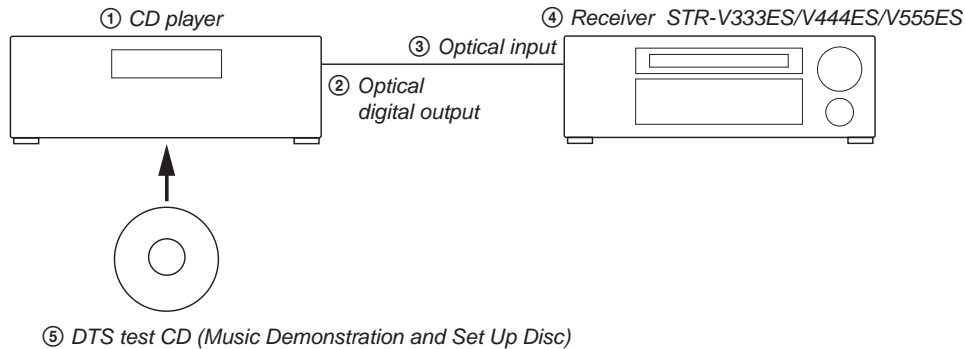
# SECTION 1 SERVICE NOTE

## DTS Decode Test

### • Required Instrument

CD player (equipped with optical digital output)  
Optical cable  
DTS test CD (J-2501-154-A)

### Connection:



### Procedure:

1. Set the FUNCTION of the receiver to the CD position and confirm that "OPTICAL" and "CD" appear on the display.
2. Insert the DTS test CD into the CD player and play the CD.
3. About three seconds later, confirm that the receiver recognizes the optical signal and that the "DTS" and "dts [3/2]" are appear on the display. Confirm also that MULTI CHANNEL DECODING (blue lamp) flashes on the front panel.

### Music Demonstration

Track No.	Contents	Time
1	Seal : "Prayer for the Dying"	5'40"
2	Andrew Litton conducting The Dallas Symphony Orchestra & Chorus: Excerpt from Tchaikovsky: "1812 Overture"	4'16"
3	Alan Parsons with Christopher Cross: "So Far Away"	4'08"
4	Shoelss Joe: "The Bet"	3'29"
5	TELARC: "A Touch of Surround Madness"	6'42"

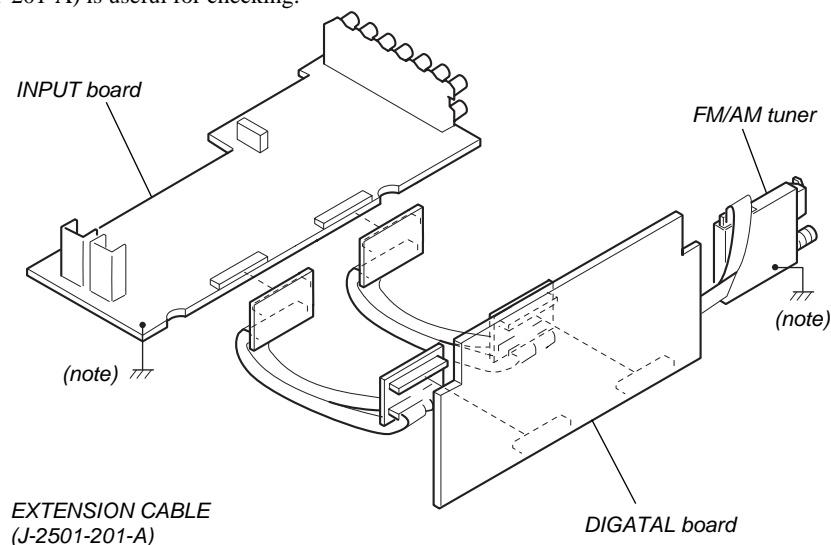
### Set-Up

Track No.	Contents	Time
6	1 kHz sine (All channels) Level Adjustment and Harmonic Distortion Analysis	1'00"
7	100 Hz sine (All channels) Verification of Signal and Subwoofer Testing	1'00"
8	C-Weighted Pink Noise-Left Front Channel	1'00"
9	C-Weighted Pink Noise-Center Channel	2'00"
10	C-Weighted Pink Noise-Right Front Channel	2'00"
11	C-Weighted Pink Noise-Right Rear Channel	2'00"
12	C-Weighted Pink Noise-Left Rear Channel	2'00"
13	C-Weighted Pink Noise-Subwoofer (LEE)	2'00"
14	C-Weighted Pink Noise-All Channels	2'00"
15	10 Hz to 20 kHz Sine Sweep An "All Channel" Frequency Response Test	2'00"
16	20 Hz to 160 Hz sine sweep A "Subwoofer" Low Frequency Response Test	2'00"

\* Track numbers from 8 to 14 are for Room Equalization and Channel Identification.

### JIG FOR CHECKING DIGITAL BOARD.

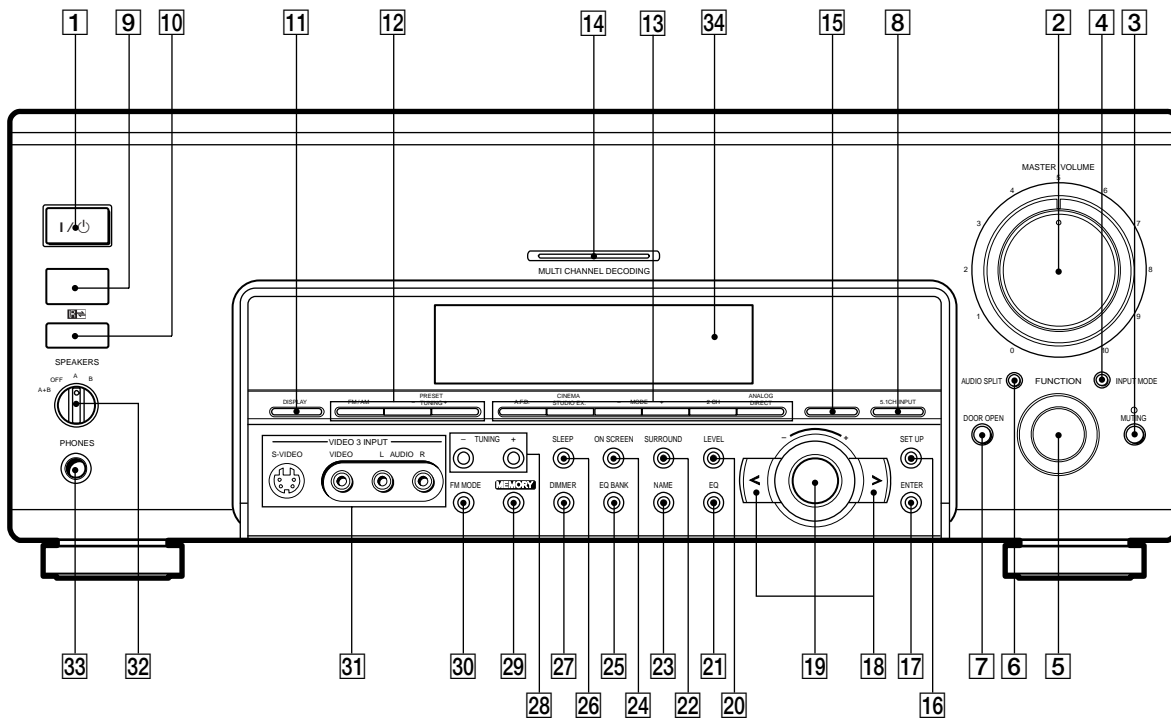
This extension cable (J-2501-201-A) is useful for checking.



Note : GND land of INPUT board and FM/AM tuner unit are connected to chassis.

## SECTION 2 GENERAL

### FRONT PANEL

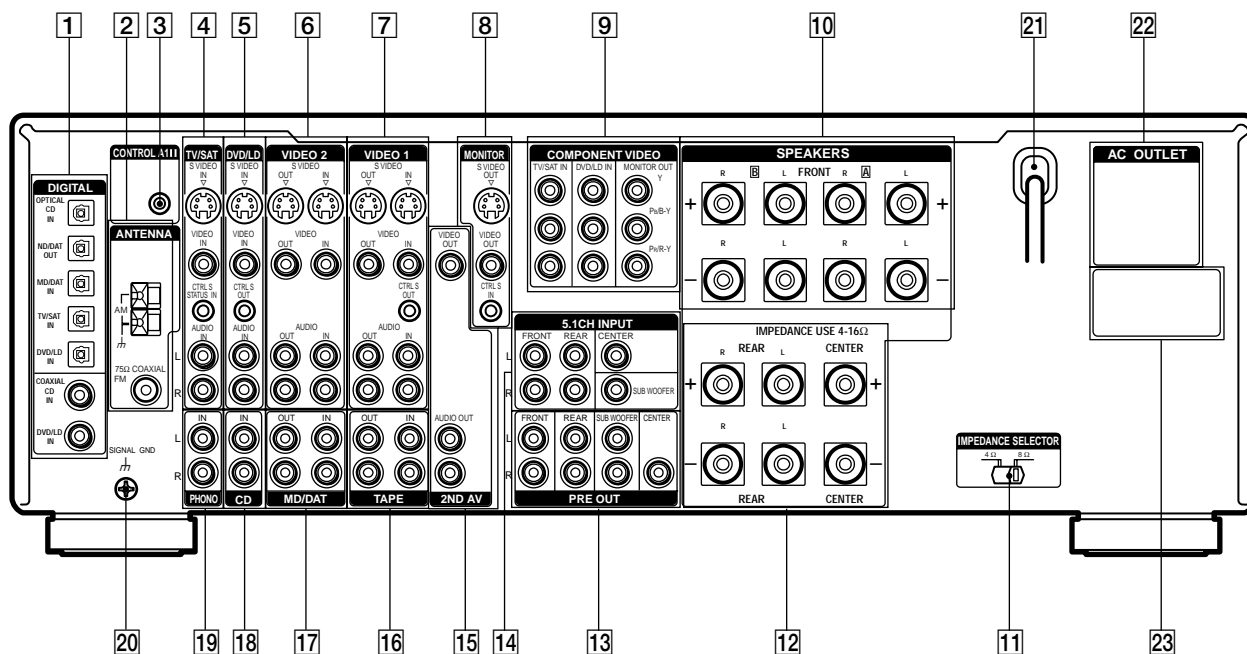


- |   |                                     |
|---|-------------------------------------|
| <b>1</b> I/⏻ button                           | <b>18</b> Cursor button (</>)       |
| <b>2</b> MASTER VOLUME control                | <b>19</b> Jog dial                  |
| <b>3</b> MUTING button and indicator          | <b>20</b> LEVEL button              |
| <b>4</b> INPUT MODE button                    | <b>21</b> EQ button                 |
| <b>5</b> FUNCTION control                     | <b>22</b> SURROUND button           |
| <b>6</b> AUDIO SPLIT button                   | <b>23</b> NAME button               |
| <b>7</b> DOOR OPEN button                     | <b>24</b> ON SCREEN button          |
| <b>8</b> 5.1CH INPUT button                   | <b>25</b> EQ BANK button            |
| <b>9</b> IR receptor                          | <b>26</b> SLEEP button              |
| <b>10</b> IR emitter                          | <b>27</b> DIMMER button             |
| <b>11</b> DISPLAY button                      | <b>28</b> TUNING +/- buttons        |
| <b>12</b> FM/AM button                        | (EXCEPT AEP,UK,CIS,EE,AUS,MY,SP,HK) |
| <b>13</b> PRESET TUNNING +/- buttons          | TUNNING/PTY SELECT +/- buttons      |
| A.F.D. button                                 | (AEP,UK,CIS,EE,AUS,MY,SP,HK model)  |
| CINEMA STUDIO EX button                       | <b>29</b> MEMORY button             |
| MODE +/- buttons                              | <b>30</b> FM MODE button            |
| 2CH button                                    | <b>31</b> VIDEO 3 INPUT jack        |
| ANALOG DIRECT button                          | S-VIDEO                             |
| <b>14</b> MULTI CHANNEL DECODING indicator    | VIDEO                               |
| <b>15</b> 2ND AV button (V444ES/V555ES model) | AUDIO L/R                           |
| 2ND AUDIO button (V333ES model)               | <b>32</b> SPEAKERS selector         |
| <b>16</b> SET UP button                       | <b>33</b> PHONES jack               |
| <b>17</b> ENTER button                        | <b>34</b> Display window            |

#### • Abbreviation

- EE : East European model
- AUS : Australian model
- MY : Malaysia model
- SP : Singapore model
- HK : Hong Kong model

## REAR PANEL



- |   |  |
|---|--|
| <p><b>1</b> DIGITAL jack<br/>OPTICAL CD IN<br/>MD/DAT IN/OUT<br/>TV SAT IN<br/>DVD/LD IN<br/>COAXIAL CD IN(V444ES/V555ES model)<br/>DVD LD IN</p> <p><b>2</b> ANTENNA terminal<br/>AM<br/>FM</p> <p><b>3</b> CONTROL A1 II jack</p> <p><b>4</b> TV/SAT jack<br/>S VIDEO IN<br/>VIDEO IN<br/>CTRL S STATUS IN<br/>(V333ES/V444ES/V555ES: US, CND model)<br/>AUDIO IN</p> <p><b>5</b> DVD/LD jack<br/>S VIDEO IN<br/>VIDEO IN<br/>CTRL S OUT<br/>(V333ES/V444ES/V555ES: US, CND model)<br/>AUDIO IN</p> <p><b>6</b> VIDEO 2 jack<br/>S VIDEO IN/OUT<br/>VIDEO IN/OUT<br/>AUDIO IN/OUT</p> <p><b>7</b> VIDEO 1 jack<br/>S VIDEO IN/OUT<br/>VIDEO IN/OUT<br/>CTRL S OUT<br/>(V333ES/V444ES/V555ES: US, CND model)<br/>AUDIO IN/OUT</p> <p><b>8</b> MONITOR jack<br/>S VIDEO OUT<br/>VIDEO OUT<br/>CTRL S IN (V333ES/V444ES/V555ES: US, CND model)</p> | <p><b>9</b> COMPONENT VIDEO jack (V444ES/V555ES model)<br/>TV/SAT IN, Y, C<sub>B</sub>/B-Y, C<sub>R</sub>/R-Y<br/>DVD LD IN, Y, C<sub>B</sub>/B-Y, C<sub>R</sub>/R-Y<br/>MONITOR OUT, Y, C<sub>B</sub>/B-Y, C<sub>R</sub>/R-Y</p> <p><b>10</b> SPEAKERS terminal<br/>FRONT A<br/>FRONT B<br/>IMPEDANCE SELECTOR switch 4Ω/8Ω</p> <p><b>11</b> IMPEDANCE SELECTOR switch 4Ω/8Ω</p> <p><b>12</b> SPEAKERS terminal<br/>REAR CENTER</p> <p><b>13</b> PRE OUT jack<br/>FRONT<br/>REAR<br/>SUB WOOFER<br/>CENTER</p> <p><b>14</b> 5.1CH INPUT jack<br/>FRONT<br/>REAR<br/>CENTER<br/>SUB WOOFER</p> <p><b>15</b> 2ND AV jack (V444ES/V555ES model)<br/>VIDEO OUT<br/>AUDIO OUT<br/>2ND AUDIO jack (V333ES model)<br/>AUDIO OUT</p> <p><b>16</b> TAPE jack<br/>IN/OUT</p> <p><b>17</b> MD/DAT jack<br/>IN/OUT</p> <p><b>18</b> CD IN jack</p> <p><b>19</b> PHONE IN jack</p> <p><b>20</b> SIGNAL GND</p> <p><b>21</b> AC power cord</p> <p><b>22</b> AC OUTLET</p> <p><b>23</b> VOLTAGE SELECTOR switch<br/>(V555ES: E, PX EA model)</p> |
|---|--|

- Abbreviation  
EE : East European model  
CND : Canadian model

- Abbreviation  
EA : Saudi Arabia model

## SECTION 3 TEST MODE

### FLUORESCENT INDICATOR TUBE TEST MODE

All fluorescent segments are tested. When this test is activated, all segments turn on at the same time, then each segment turns on one after another.

Procedure:

1. While depressing, the **AUDIO SPLIT** and the **DISPLAY** buttons simultaneously, press the power **I/⏻** button to turn on the main power.
2. All segments turn on at the same time, then each segment turns on press the **AUDIO SPLIT** button.

### FACTORY SET MODE

All preset contents are reset to the default setting.

Procedure:

1. While depressing the **MUTING**, and the **FM/AM** buttons simultaneously, press the power **I/⏻** button to turn on the main power. The message Factory Set appears and the present contents are reset to the default values.

### ALL CLEAR MODE

All preset contents are cleared when this mode is activated. Use this mode before returning the product to clients upon completion of repair.

Procedure:

ALL CLEAR mode; Press the **MUTING**, **5.1CH INPUT**, and **I/⏻** buttons.

### SOUND FIELD CLEAR MODE

The preset sound field is cleared when this mode is activated. Use this mode before returning the product to clients upon completion of repair.

Procedure:

1. While depressing the **MODE +** button, press the power **I/⏻** button to turn on the main power. The message S.F Initialize appears and initialization is performed.

### AM CHANNEL STEP 9 KHZ/10 KHZ SELECTION MODE

#### (US, Canadian, E, Taiwan MODELS)

Either the 9 kHz step or 10 kHz step can be selected for the AM channel step.

Procedure:

1. Set the FUNCTION to AM. Turn off the main power.
2. While depressing the **TUNING +** button or the **PRESET TUNING +** button, press the power **I/⏻** button to turn on the main power.
3. Either the message AM 9kHz Step or AM 10kHz Step appears. Select the desired step.

### VERSION MODE

When this mode is used, the microprocessor version number is displayed.

Procedure:

1. Press the **I/⏻** button while pressing the **MUTING**, and **DISPLAY** buttons to turn on the power. The microprocessor version number appears as follows.

## SECTION 4 ELECTRICAL ADJUSTMENT

Ver 1.2 2002.01

### [IDLING CURRENT ADJUSTMENT]

**NOTE:** Set adjustment element (RV501-751) to minimum current position before power turn ON.

Turn the power to ON, and adjust RV501-751 after progress for 10 minutes.

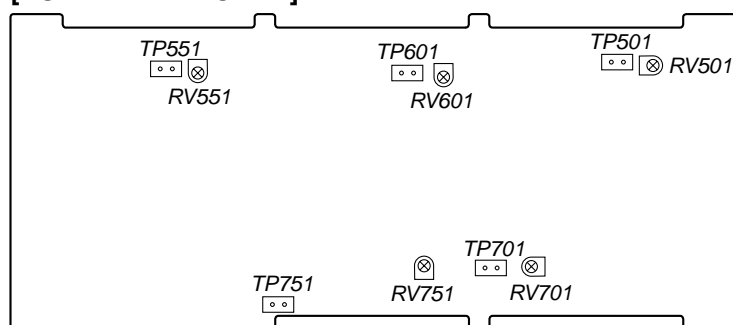
**Measuring Instrument:** Digital voltmeter

**Adjustment Procedure:** Adjust the respective adjustment elements so that the voltage (absolute value) across the corresponding testpoints satisfies the specification.

Channel	Test point	Adjustment element	Specification
FRONT L	TP501	RV501	4mV
FRONT R	TP551	RV551	
CENTER	TP601	RV601	
REAR L	TP701	RV701	
REAR R	TP751	RV751	

**Adjustment Location:**

### [POWER AMP BOARD]



As for a set conforming to the next serial number, a change of POWER AMP BOARD is necessary.

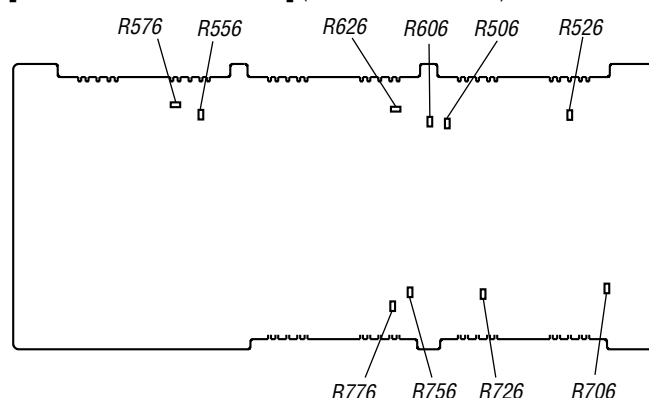
Model	Destination	Serial number range
STR-V333ES	US,CND	8,804,451 to 8,806,754
STR-V444ES	US,CND	8,806,228 to 8,808,351
STR-V555ES	US,CND	8,804,862 to 8,806,241
STR-V555ES	AEP,UK AUS (MY,SP,HK,CIS,EE)	5,502,861 to 5,504,150
STR-V555ES	E2 (PX,EX)	4,400,001 to 4,400,010
STR-V555ES	E3 (PX,EX)	3,300,001 to 3,300,209

### POWER AMP BOARD

Ref. No.	Fomer Type	New Type
R526,R576,R626 R726,R776	RESISTOR CHIP 180 ohm	RESISTOR CHIP 33 ohm 1-216-013-00
R506,R556,R606 R756,R706	RESISTOR CHIP 5.6 kohm	Remove

**Parts Location :**

### [POWER AMP BOARD] (CONDUCTOR SIDE)

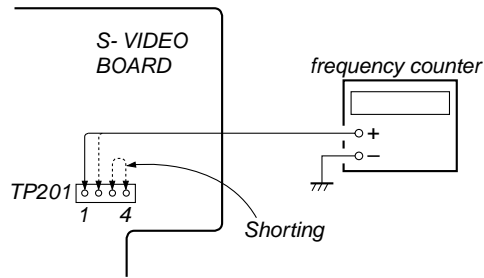


[OSD ADJUSTMENT]

Measuring Instrument: frequency counter

Procedure:

- 1. Connect the frequency counter to check connector (TP201) of the S VIDEO board.
- 2. Connect between Pin ③ to Pin ④ of TP201 by lead wire.
- 3. Adjust the respective adjustment element so that the frequency counter read specification.

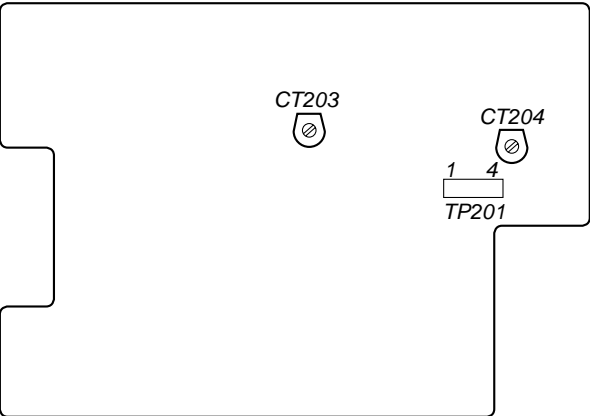


Adj.	MODEL		Adjustment element	measurement point	Specification
I	EXCEPT US,CND,TW model	NTSC	CT202 (CLOCK BOARD)	TP201 Pin ①	7.2MHz ± Hz
		PAL	CT201 (CLOCK BOARD)		
	US, CND, TW model		CT203 (S-VIDEO BOARD)		
II	All models		CT204 (S-VIDEO BOARD)	TP201 Pin ②	14.306MHz ± Hz

- 4. After check, remove the lead wire connected in step 2.

Adjustment Location:

[S-VIDEO BOARD]



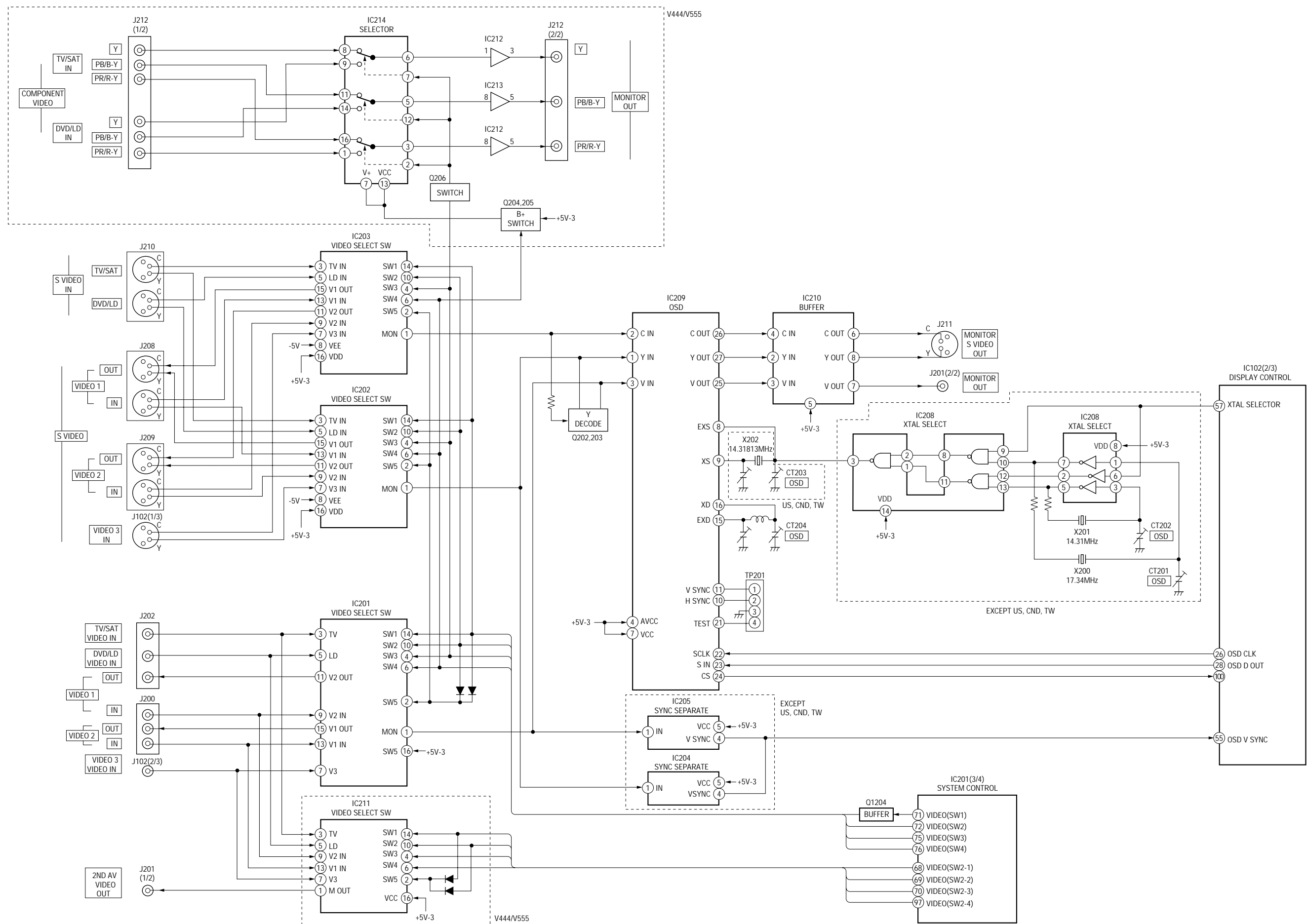
[CLOCK BOARD]



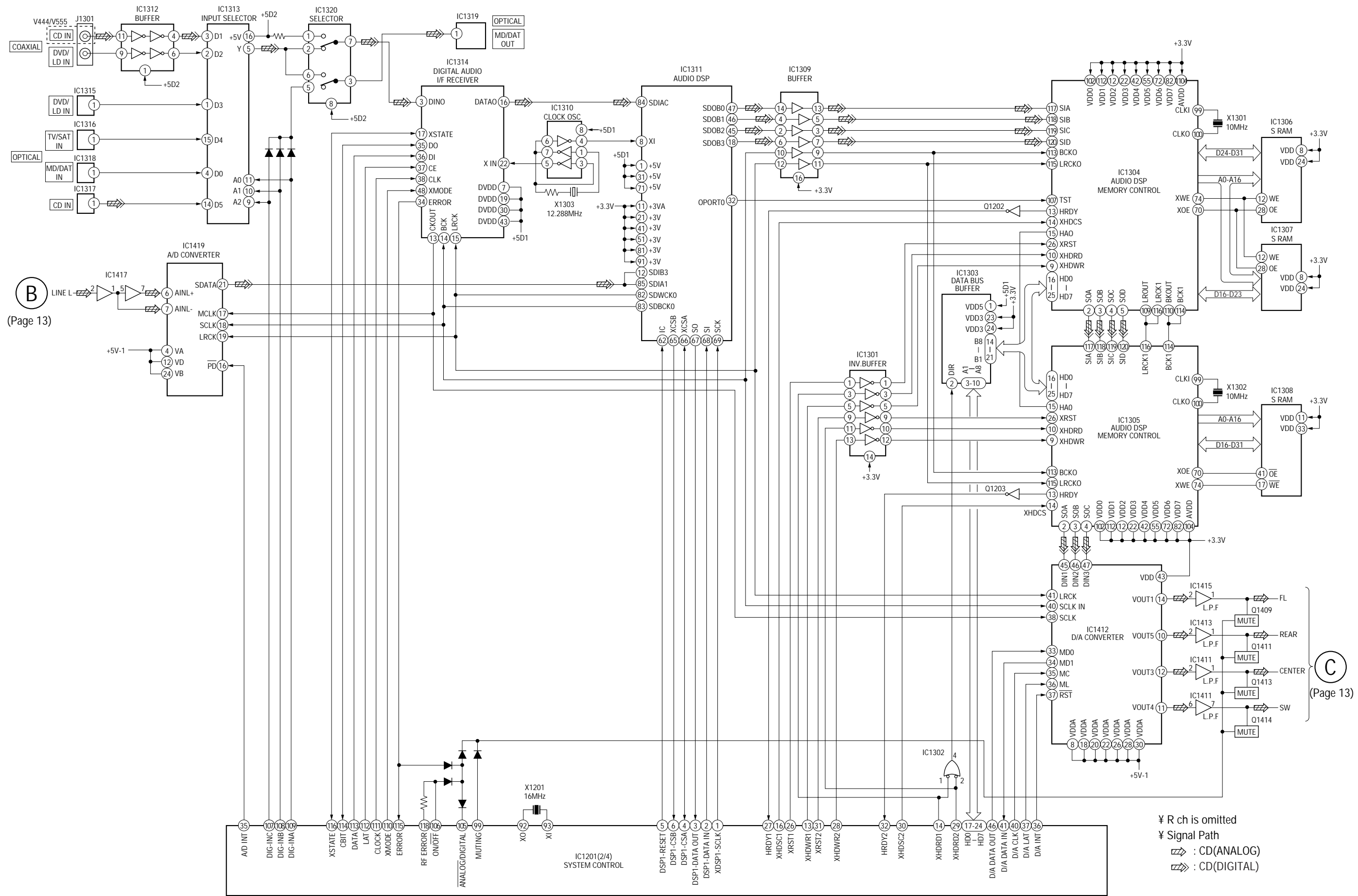


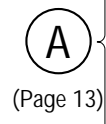
[illegible]

– VIDEO SECTION –

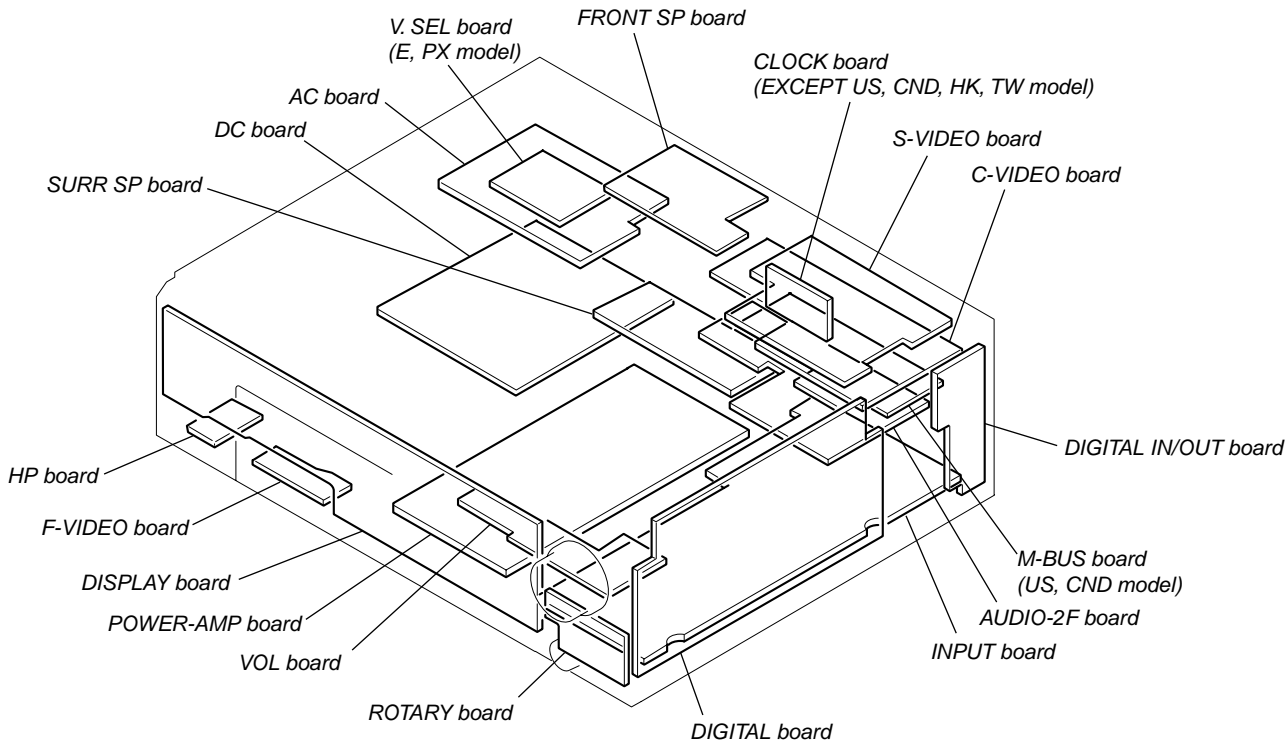


- DIGITAL SECTION -





5-2. CIRCUIT BOARDS LOCATION



THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.  
(IN ADDITION TO THIS NECESSARY NOTE IS PRINTED IN EACH BLOCK.)

For schematic diagrams.

Note:

- All capacitors are in  $\mu\text{F}$  unless otherwise noted.  $\text{pF}$ :  $\mu\text{F}$  50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and  $\frac{1}{4}\text{W}$  or less unless otherwise specified.
- % : indicates tolerance.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.

Note:

The components identified by mark  $\Delta$  or dotted line with mark  $\Delta$  are critical for safety. Replace only with part number specified.

Note:

Les composants identifiés par une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

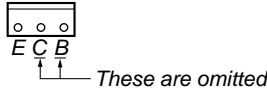
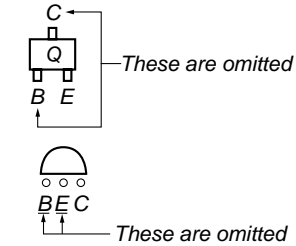
以阴影和  $\Delta$  标志来识别的零部件，在安全方面具有关键性。因此只能以规定号码的零部件来更换。

- : B+ Line.
- : B- Line.
- : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.  
No mark : FM  
( ) : VIDEO 1
- Voltages are taken with a VOM (Input impedance 10  $\text{M}\Omega$ ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
- Circled numbers refer to waveforms.
- Signal path.  
 : FM  
 : CD (ANALOG)  
 : CD (DIGITAL)  
 : PHONO
- Abbreviation  
CND : Canadian model  
AUS : Australian model  
CH : Chinese model  
EE : East European model  
EA : Saudi Arabia model  
SP : Singapore model  
TW : Taiwan model  
MY : Malaysia model  
HK : Hong Kong model

For printed wiring boards.

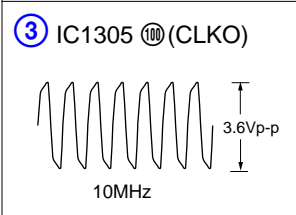
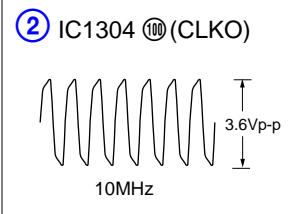
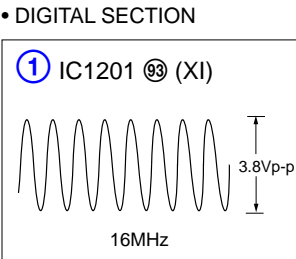
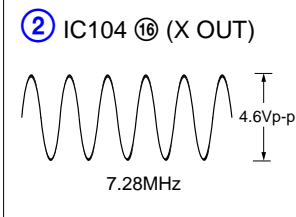
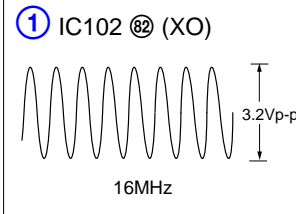
Note:

- : parts extracted from the component side.
- : Through hole.
- : Pattern from the side which enables seeing.
- There are few cases that the part isn't mounted in model is printed on diagram.

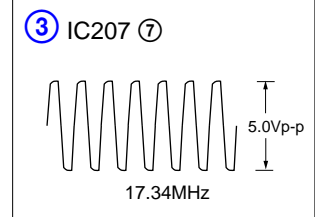
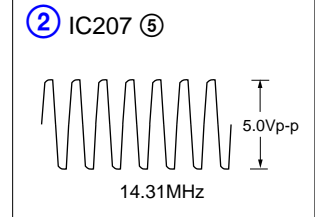
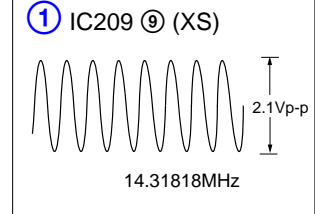


• Waveform

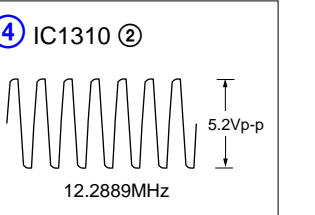
• DISPLAY SECTION



• S-VIDEO SECTION



• DIGITAL SECTION



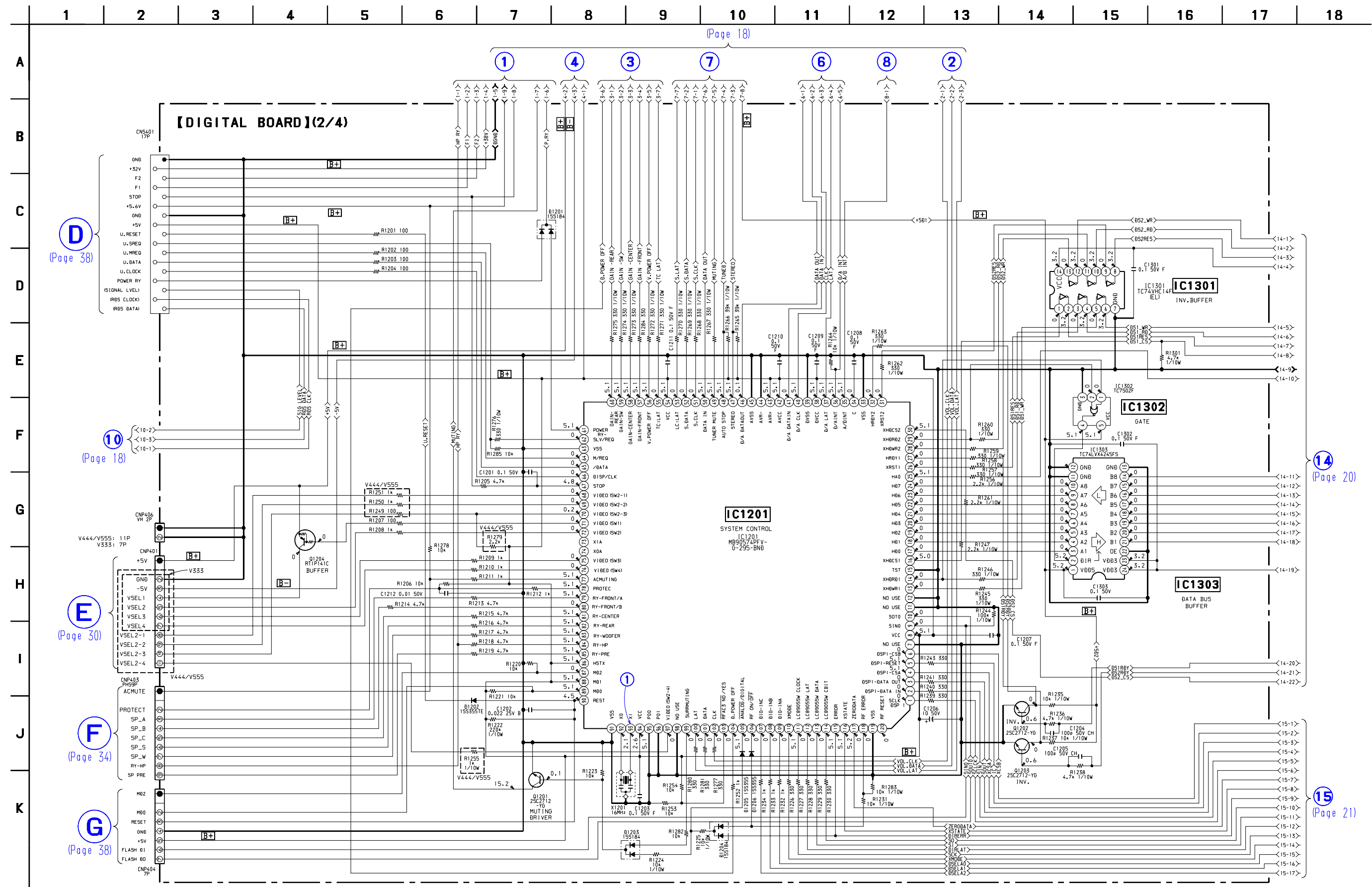




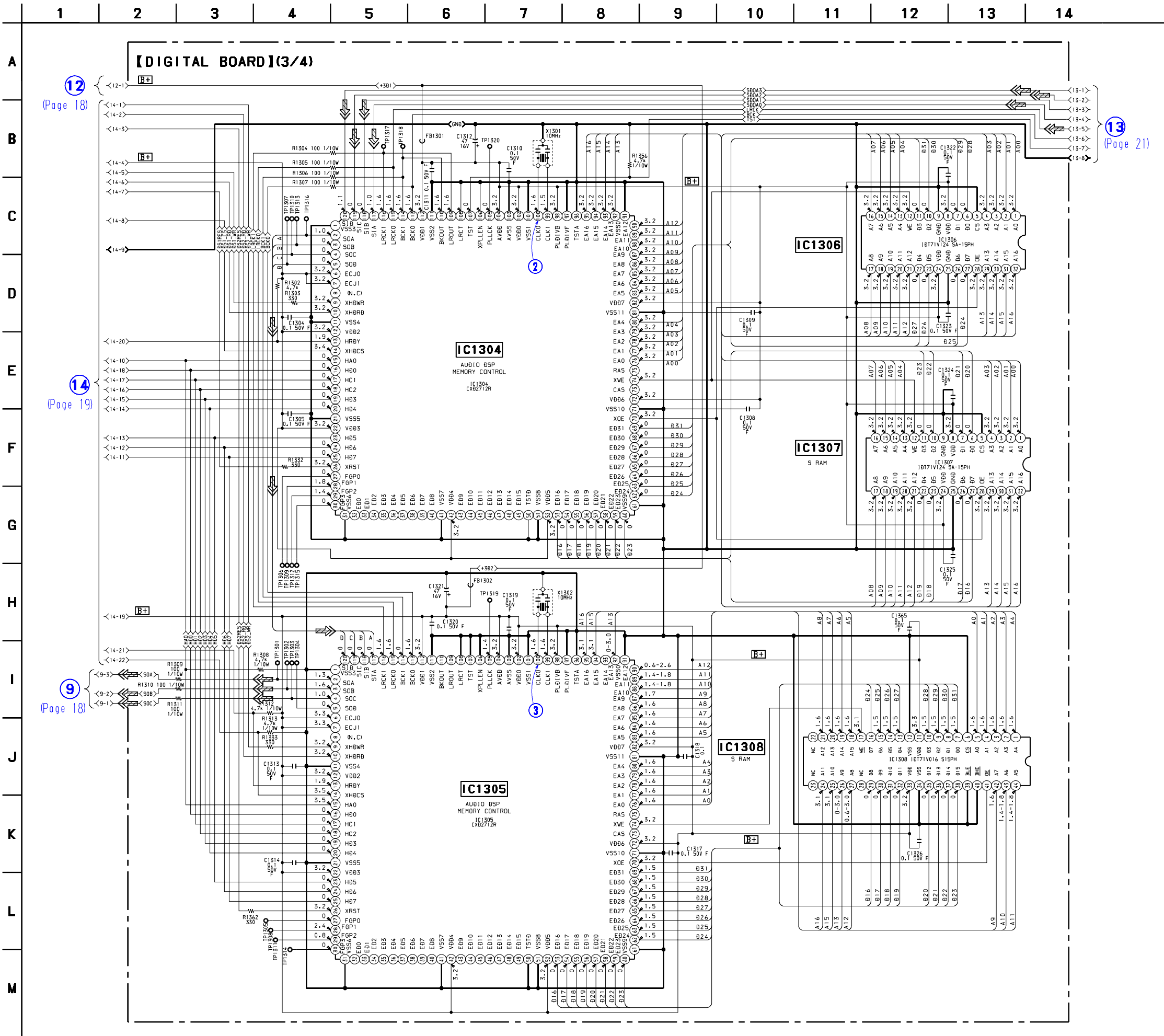
#### 5-4. SCHEMATIC DIAGRAM — DIGITAL (2/4) SECTION —

#### Former Type

- See page 17 for Waveforms.
- See page 22, 23 for Printed Wiring Board.
- See page 71 for IC Pin Function.



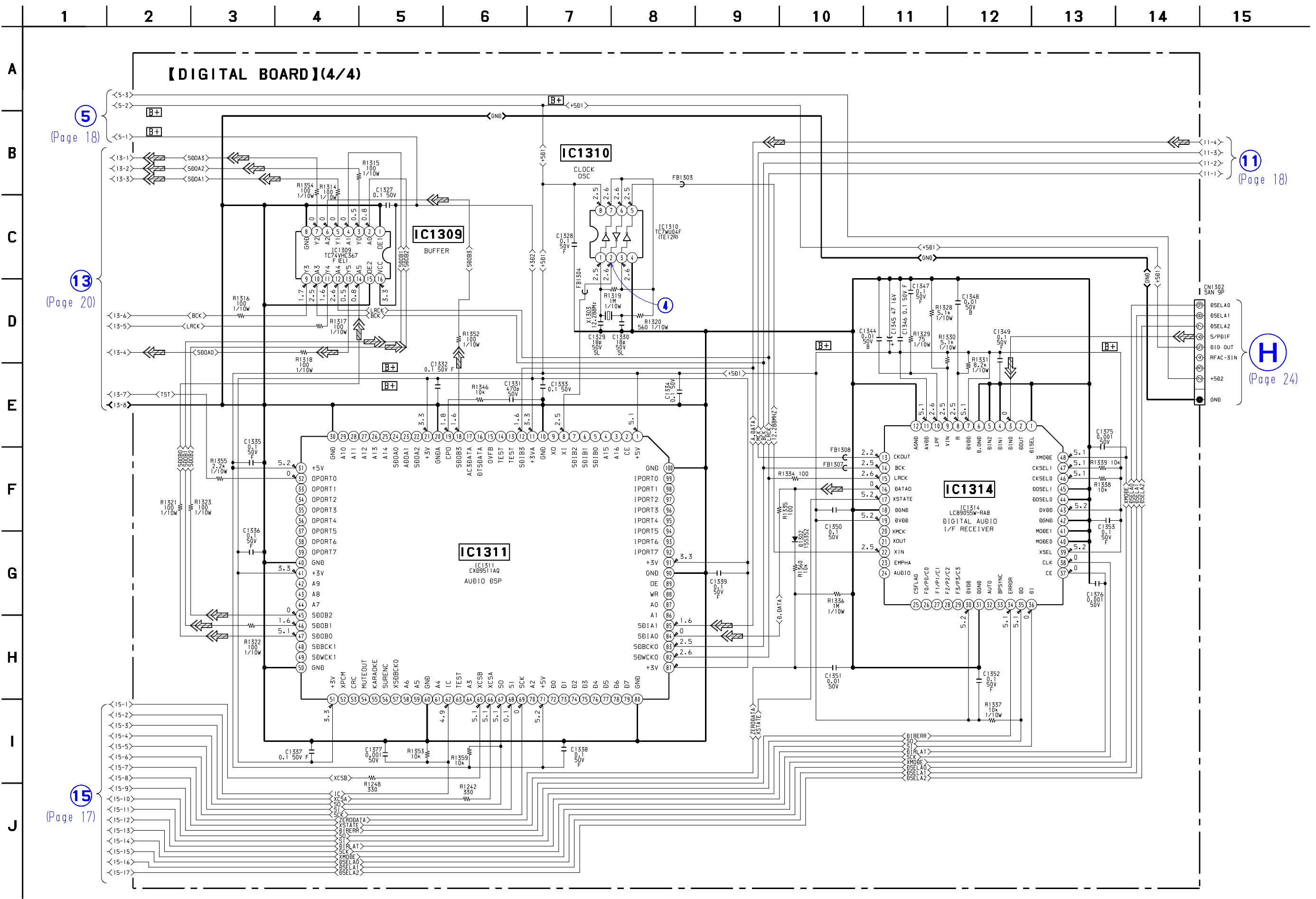
Former Type



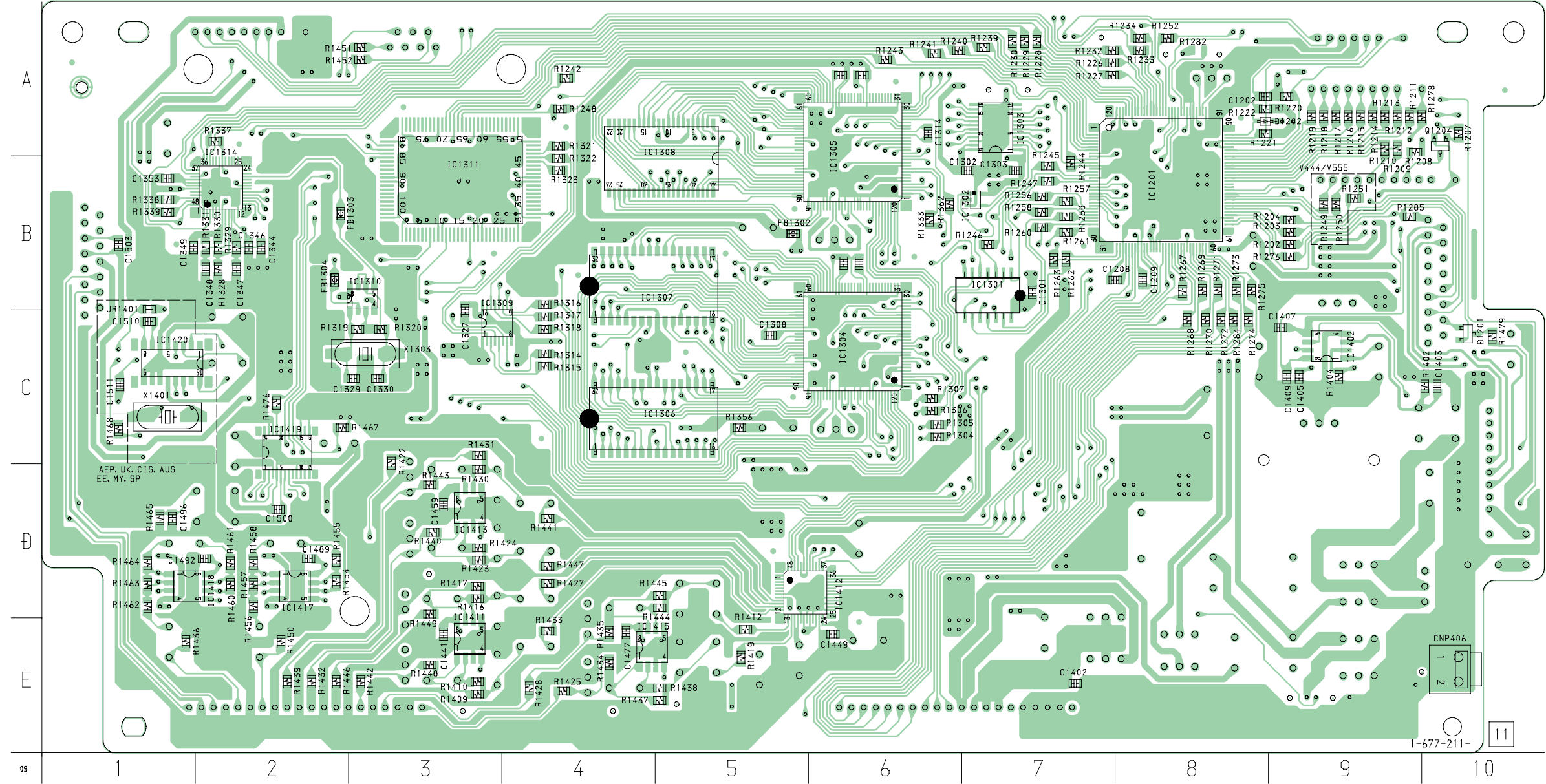


5-6. SCHEMATIC DIAGRAM — DIGITAL (4/4) SECTION —      • See page 22, 23 for Printed Wiring Board.      • See page 17 for Waveforms.

Former Type



【DIGITAL BOARD】(SIDE A)

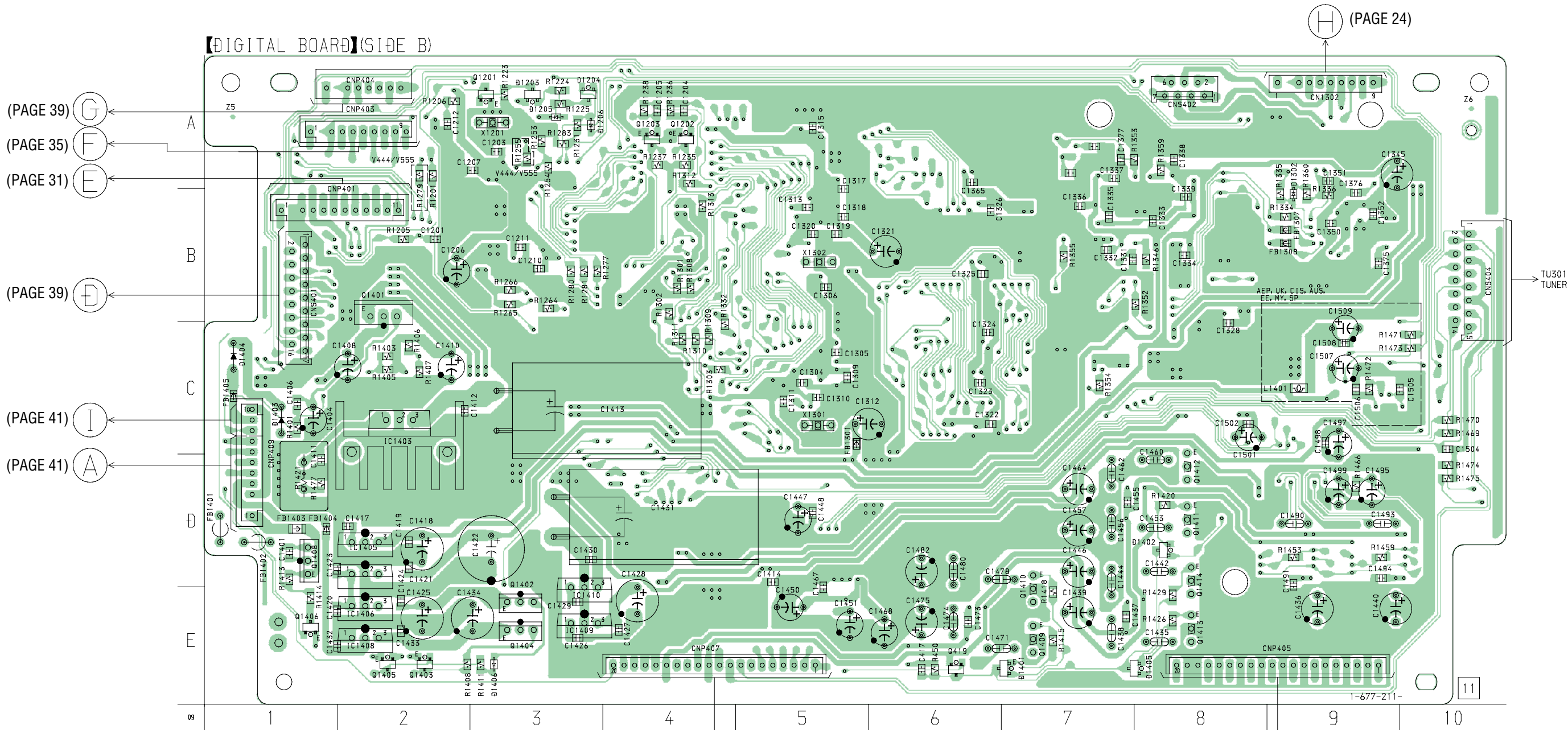


Ref. No.	Location	Ref. No.	Location
D1201	C-10	IC1311	B-3
D1202	A-8	IC1314	B-2
IC1201	B-8	IC1402	C-9
IC1301	B-7	IC1411	E-3
IC1302	B-7	IC1412	D-5
IC1303	A-7	IC1413	D-3
IC1304	C-6	IC1415	E-4
IC1305	A-6	IC1417	D-2
IC1306	C-4	IC1418	D-1
IC1307	B-4	IC1419	C-2
IC1308	B-4	IC1420	C-1
IC1309	C-3	Q1204	A-10
IC1310	B-3		

22 22

5-8. PRINTED WIRING BOARD — DIGITAL (SIDE B) SECTION — • See page 17 for Circuit Boards Location.

Former Type



• Semiconductor Location

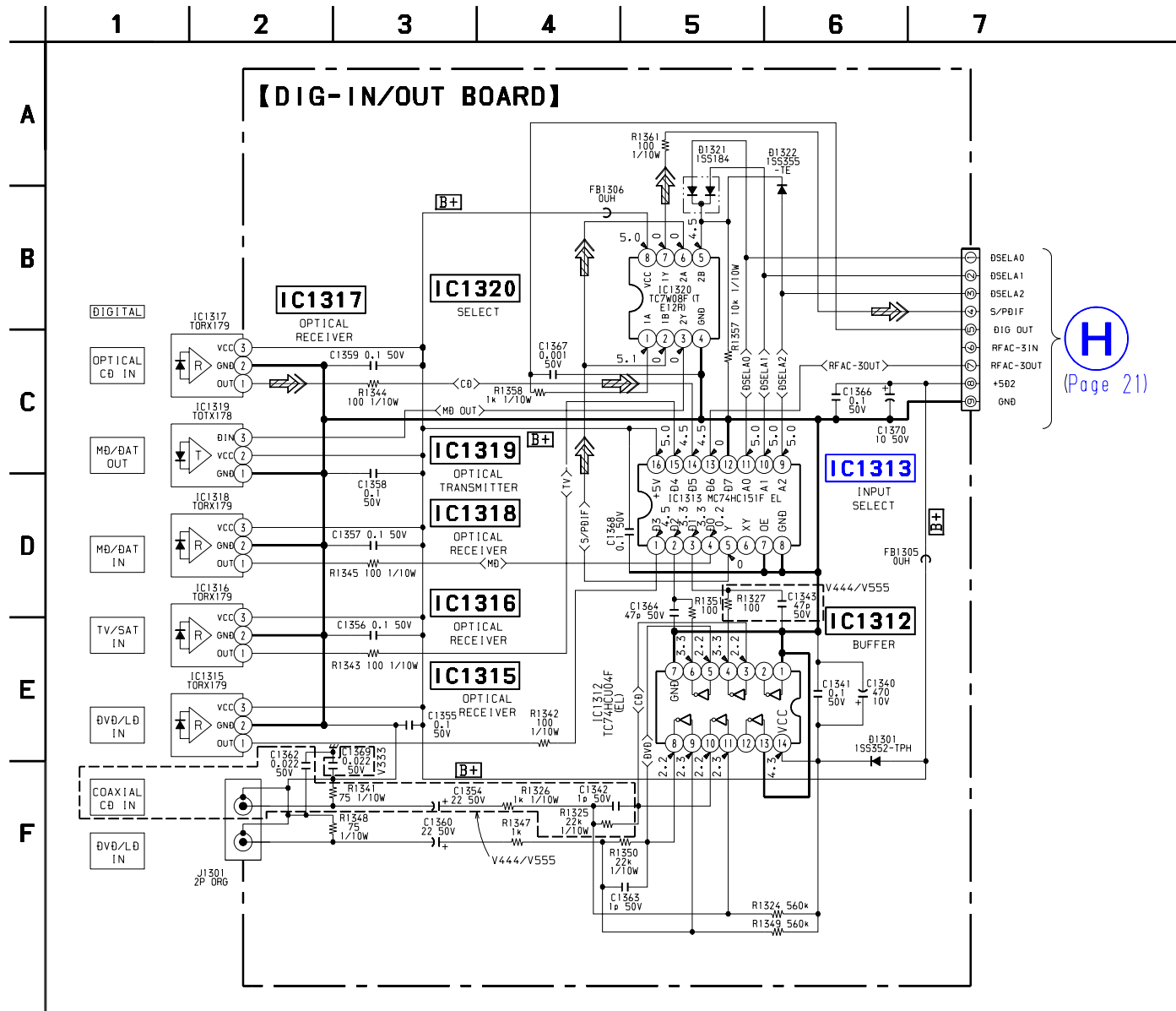
Ref. No.	Location	Ref. No.	Location
D1203	A-3	Q419	E-6
D1204	A-3	Q1201	A-3
D1205	A-3	Q1202	A-4
D1302	A-9	Q1203	A-4
D1401	E-7	Q1401	B-2
D1402	D-8	Q1402	E-3
D1403	C-1	Q1403	E-2
D1404	C-1	Q1404	E-3
D1405	E-8	Q1405	E-2
D1406	E-3	Q1406	E-1
IC1403	C-2	Q1408	D-1
IC1405	D-2	Q1409	E-7
IC1406	E-2	Q1410	D-7
IC1407	D-2	Q1411	D-8
IC1408	E-2	Q1412	D-8
IC1409	E-3	Q1413	E-8
IC1410	E-3	Q1414	D-8

There are few cases that the part isn't mounted in model is printed on diagram.



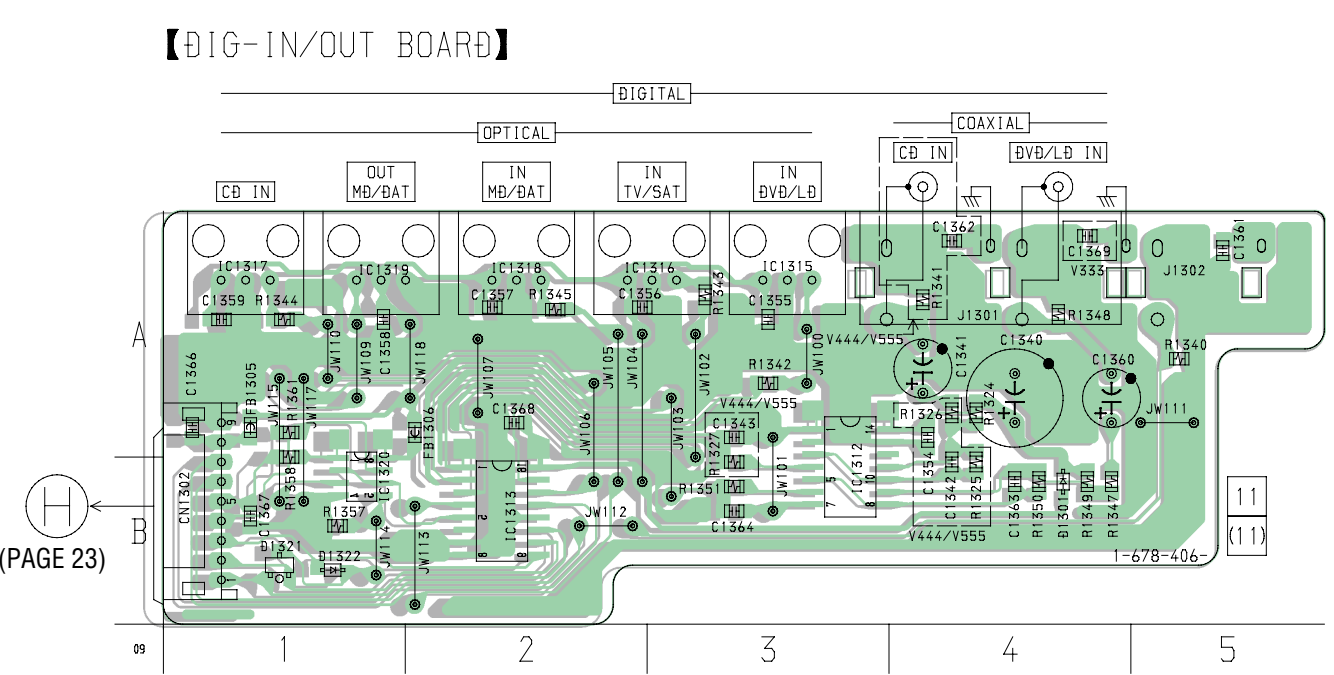
5-9. SCHEMATIC DIAGRAM — DIGITAL IN/OUT SECTION —  
• See page 66 for IC Block Diagrams.

Former Type



5-10. PRINTED WIRING BOARD — DIGITAL IN/OUT SECTION —  
• See page 17 for Circuit Boards Location.

Former Type



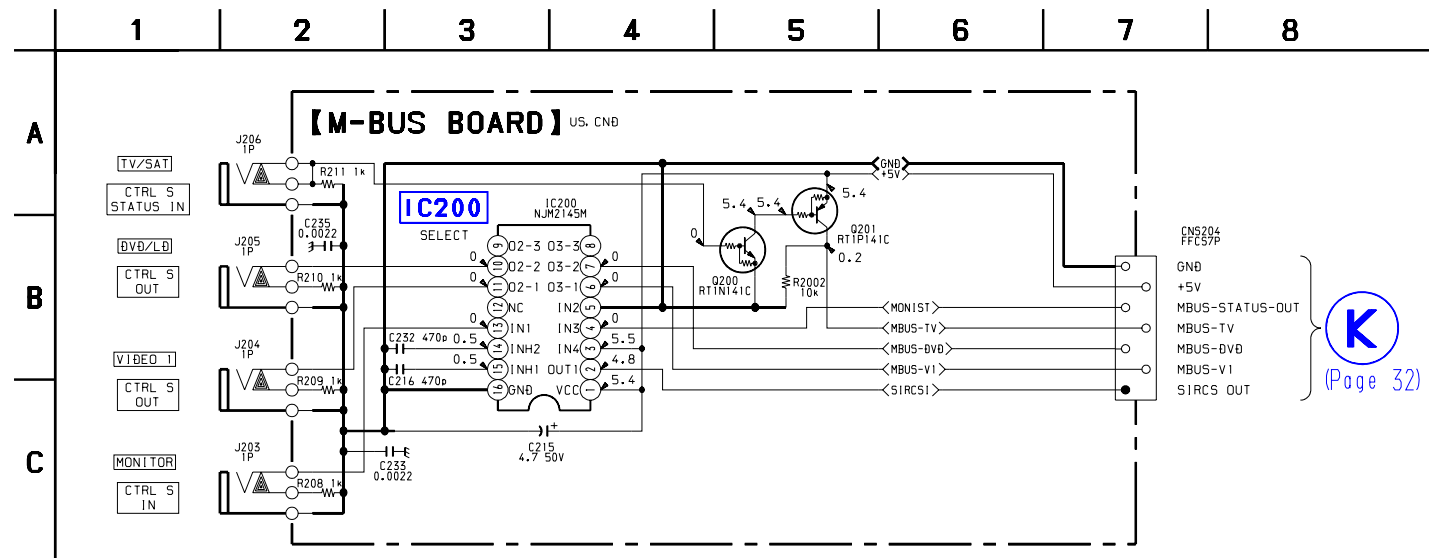
• Semiconductor Location

Ref. No.	Location
D1301	B-4
D1321	B-1
D1322	B-1
IC1312	B-3
IC1313	B-2
IC1315	A-3
IC1316	A-2
IC1317	A-1
IC1318	A-2
IC1319	A-1
IC1320	B-1

There are few cases that the part isn't mounted in model is printed on diagram.

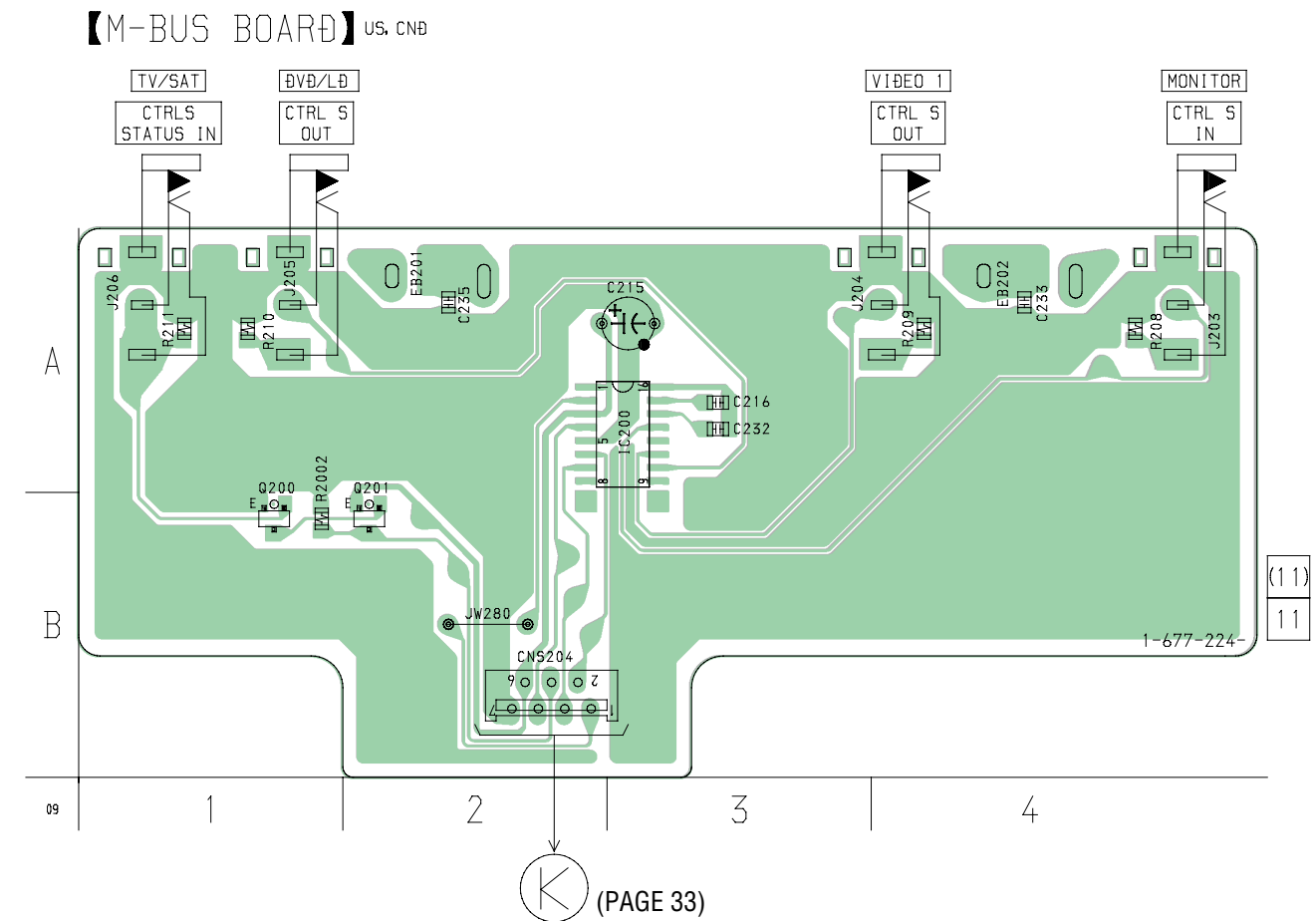
### 5-11. SCHEMATIC DIAGRAM — M-BUS SECTION —

- See page 40 for IC Block Diagrams.



## 5-12. PRINTED WIRING BOARD — M-BUS SECTION —

- See page 15 for Circuit Boards Location.

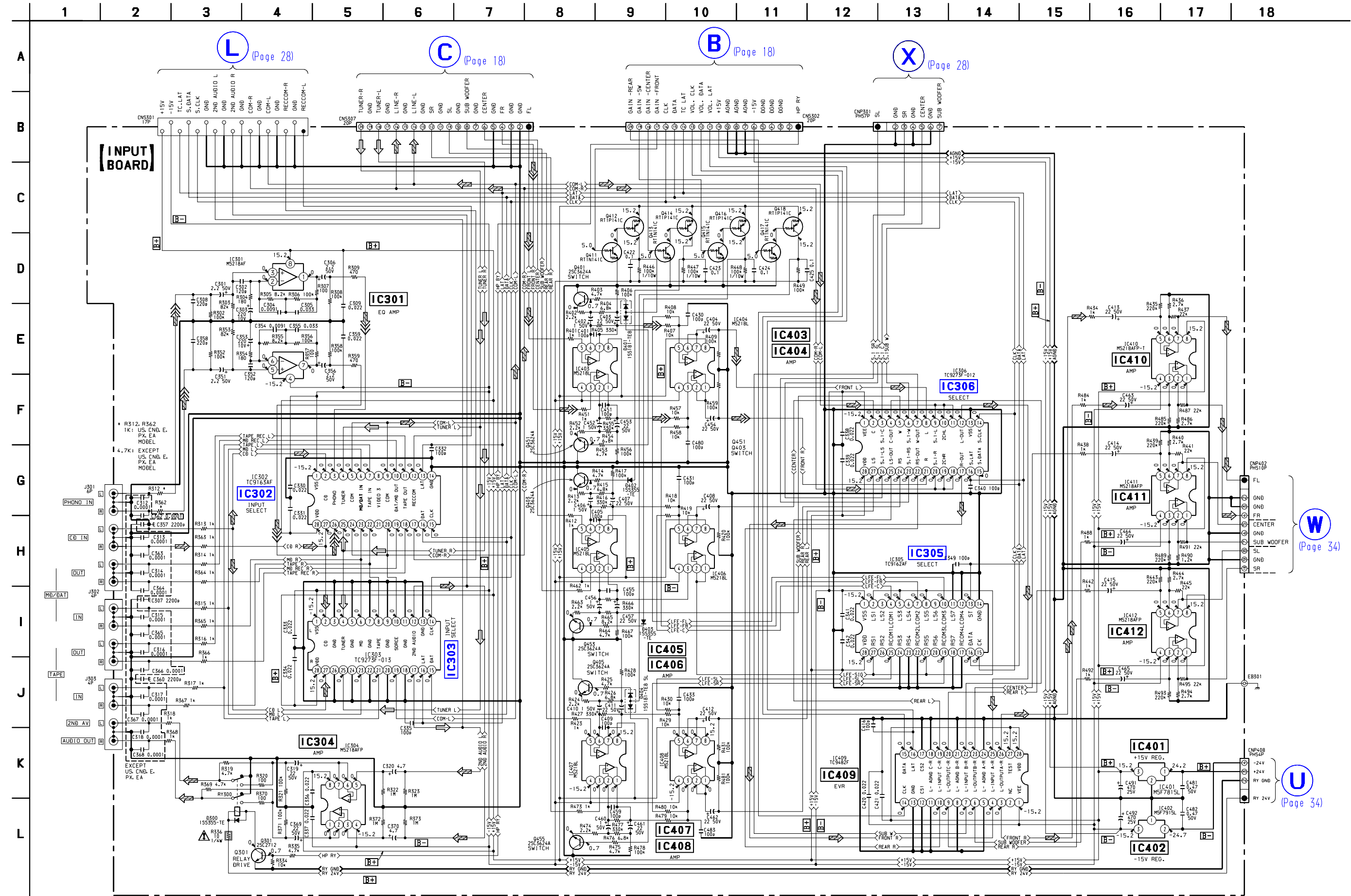


There are few cases that the part isn't mounted in model is printed on diagram.

5-13. SCHEMATIC DIAGRAM — INPUT SECTION —

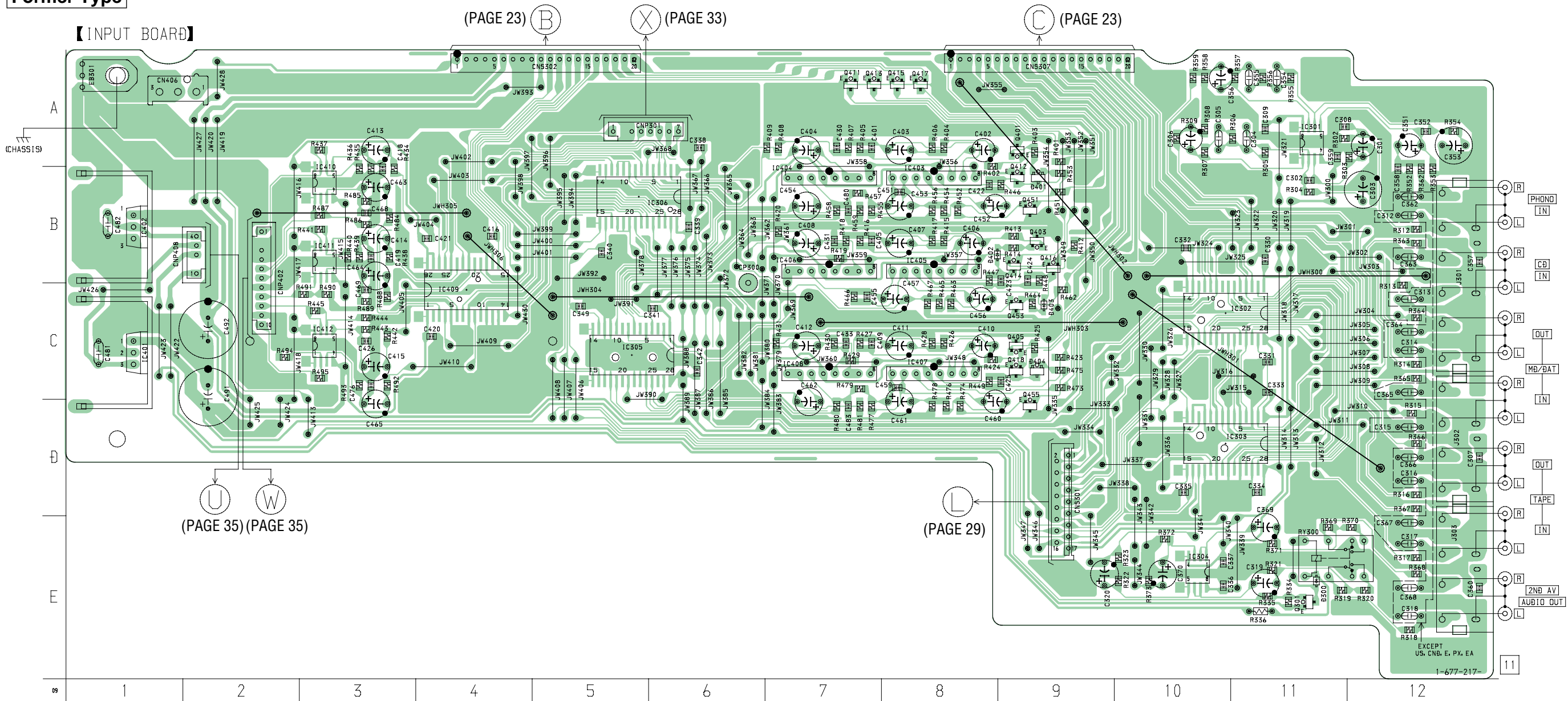
• See page 66, 67, 68 for IC Block Diagrams.

Former Type



5-14. PRINTED WIRING BOARD — INPUT SECTION —  
• See page 17 for Circuit Boards Location.

Former Type



• Semiconductor Location

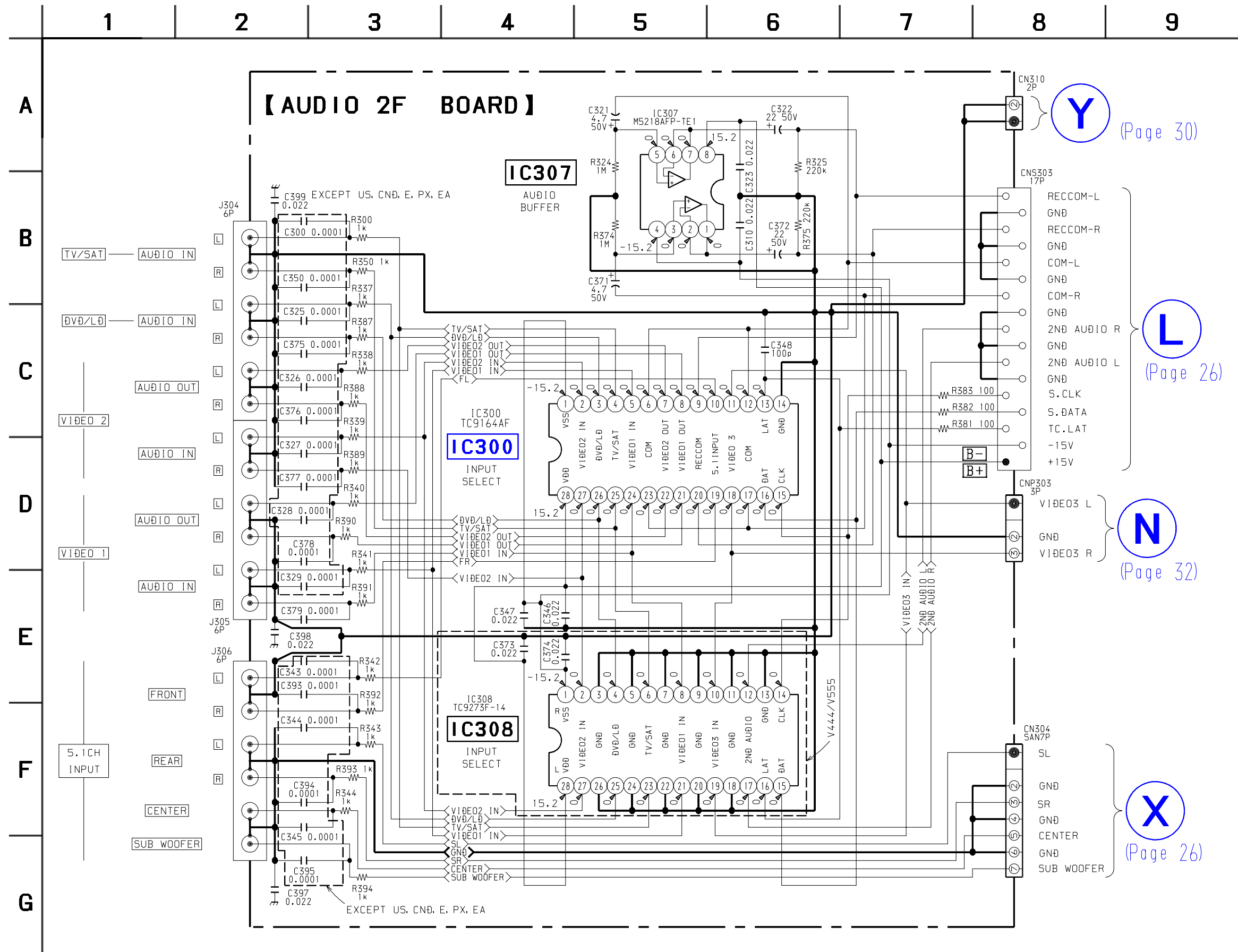
Ref. No.	Location	Ref. No.	Location
D300	E-11	IC409	C-4
D401	B-9	IC410	B-3
D402	B-9	IC411	B-3
D403	C-9	IC412	C-3
D404	C-9	Q301	E-11
IC301	A-11	Q401	A-9
IC302	C-11	Q403	B-9
IC303	D-11	Q405	C-9
IC304	E-10	Q411	A-7
IC305	C-5	Q412	B-9
IC306	B-5	Q413	A-7
IC401	C-1	Q414	B-9
IC402	B-1	Q415	A-8
IC403	B-8	Q416	B-9
IC404	B-7	Q417	A-8
IC405	B-8	Q418	C-9
IC406	B-7	Q451	B-9
IC407	C-8	Q453	C-9
IC408	C-7	Q455	D-9

There are few cases that the part isn't mounted in model is printed on diagram.



5-15. SCHEMATIC DIAGRAM — AUDIO 2F SECTION —  
• See page 68 for IC Block Diagrams.

Former Type



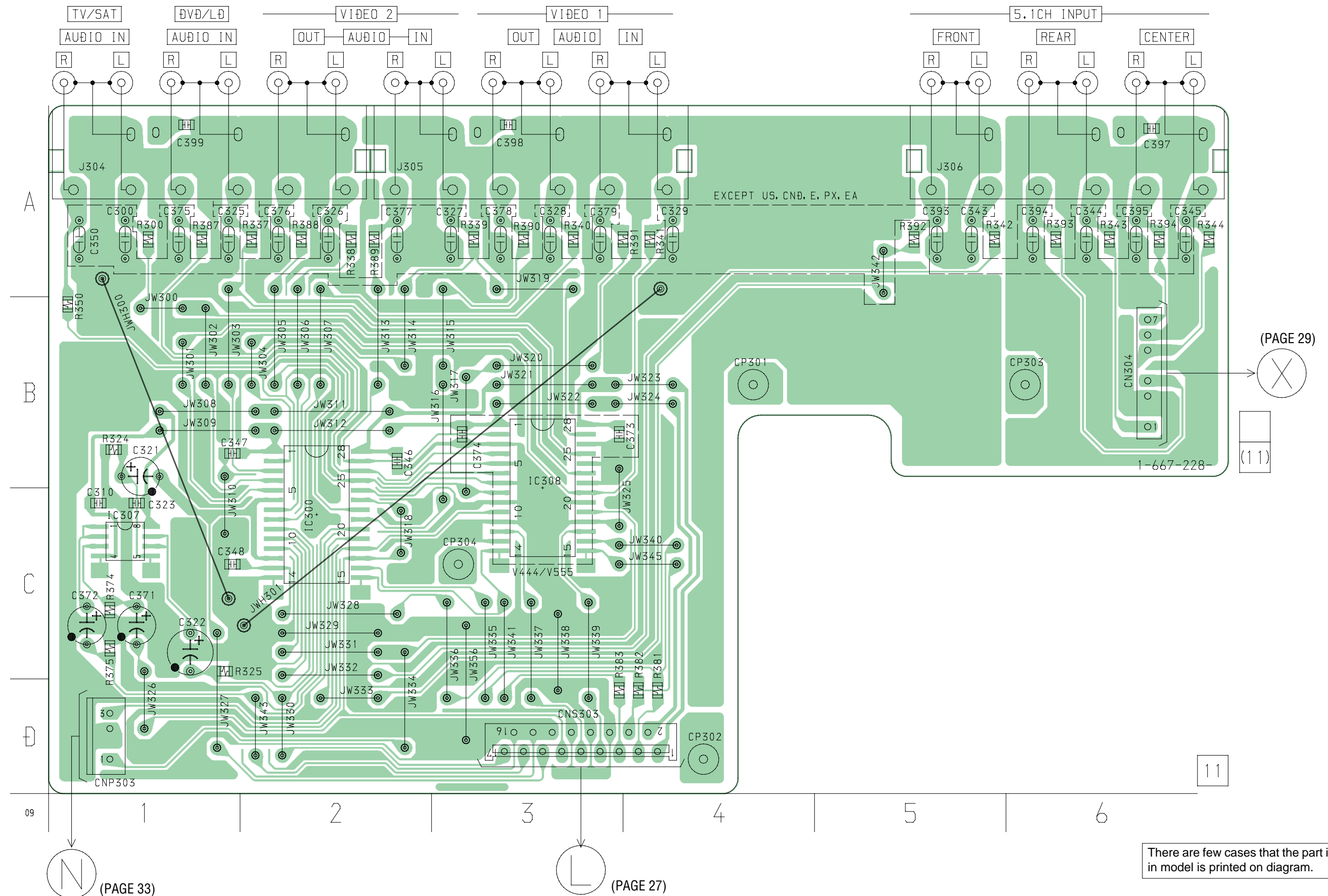


### 5-16. PRINTED WIRING BOARD — AUDIO 2F SECTION —

- See page 17 for Circuit Boards Location.

Former Type

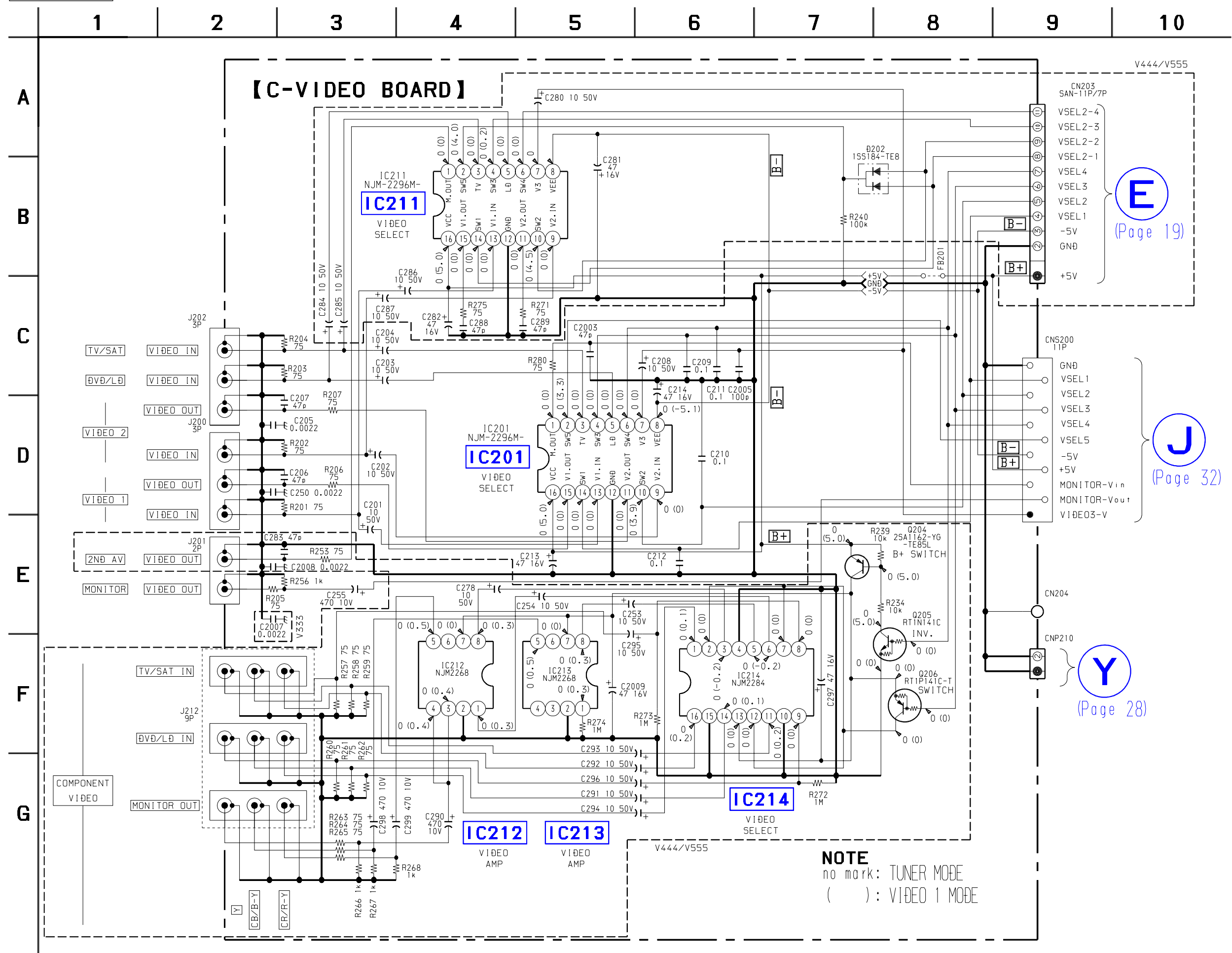
【AUDIO 2F BOARD】



There are few cases that the part isn't mounted in model is printed on diagram.

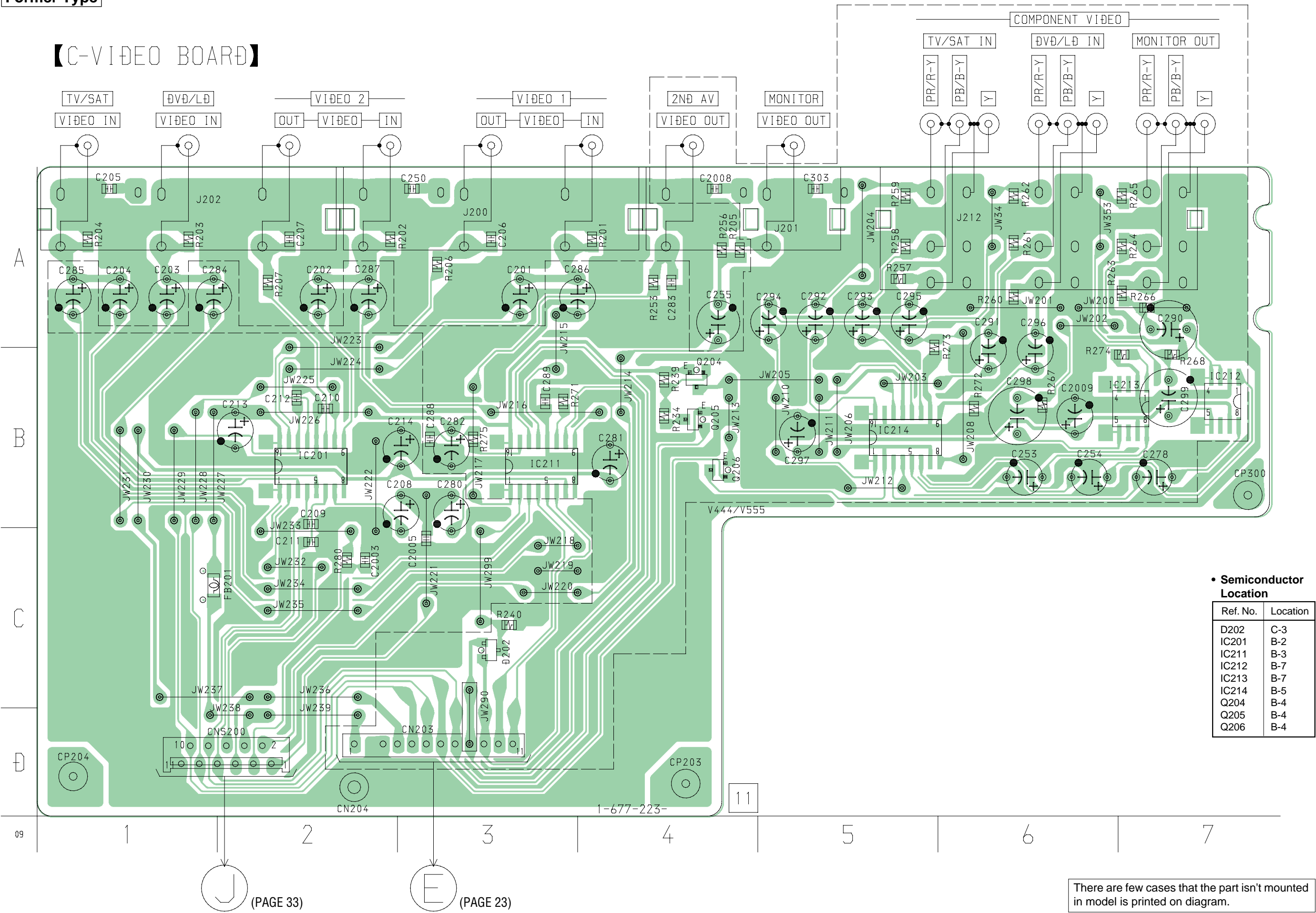
5-17. SCHEMATIC DIAGRAM — C-VIDEO SECTION — • See page 66, 67 for IC Block Diagrams.

Former Type

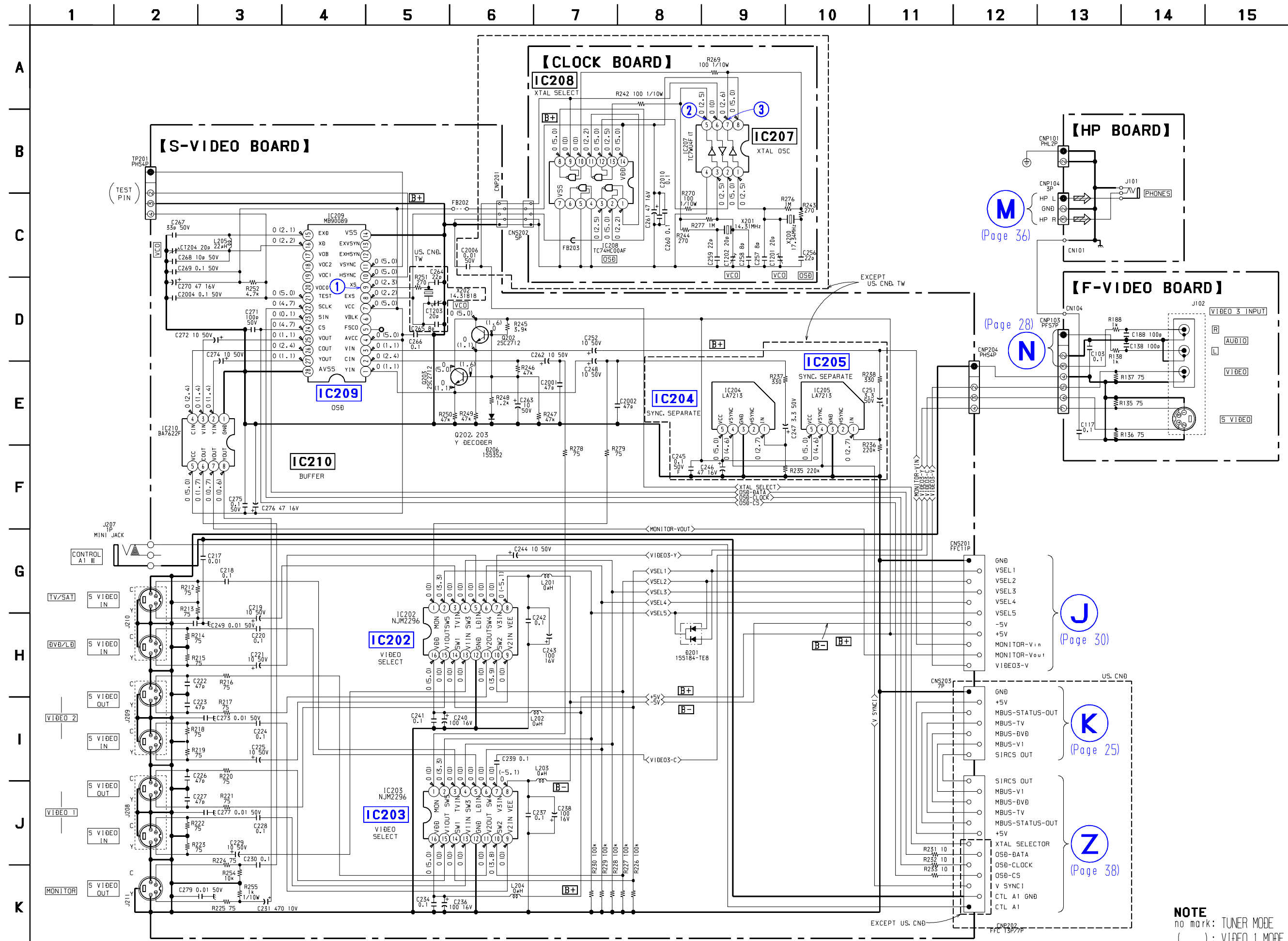


5-18. PRINTED WIRING BOARD — C-VIDEO SECTION —  
• See page 17 for Circuit Boards Location.

Former Type



Former Type



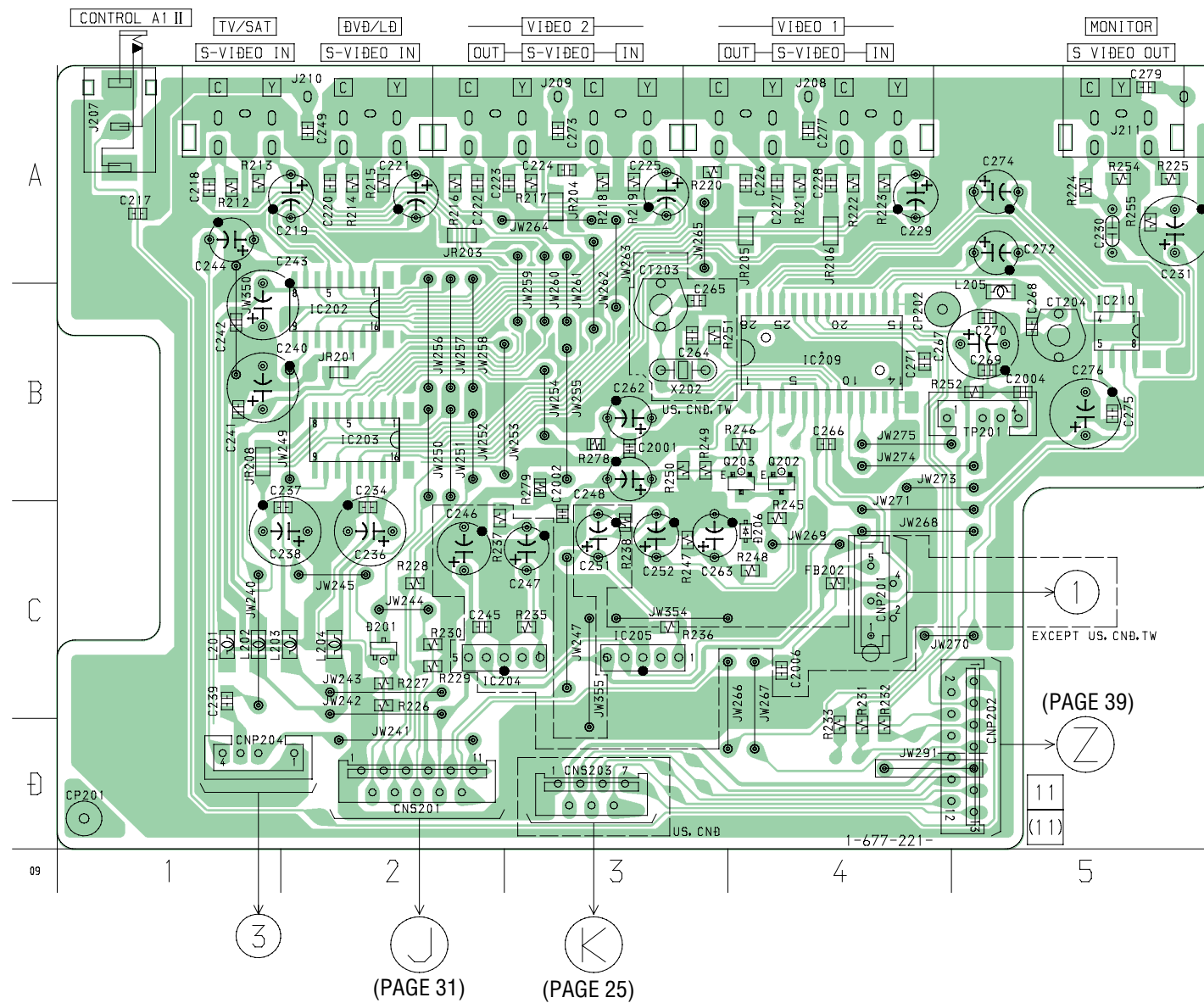


## 5-20. PRINTED WIRING BOARD — S-VIDEO SECTION —

- See page 17 for Circuit Boards Location.

### Former Type

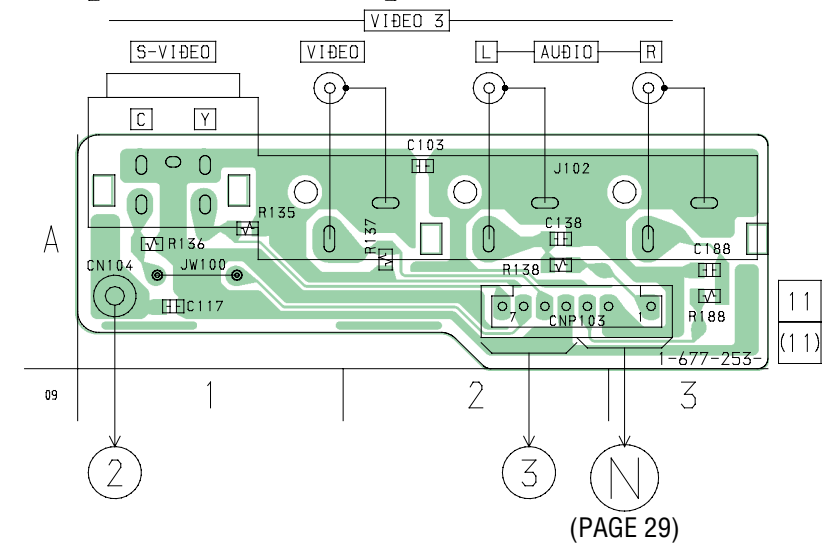
【S-VIDEO BOARD】



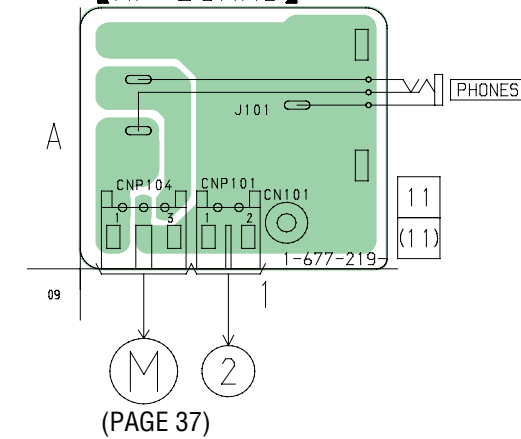
- **Semiconductor Location**

Ref. No.	Location
D201	C-2
D206	C-4
IC202	B-2
IC203	B-2
IC204	C-2
IC205	C-3
IC209	B-4
IC210	B-5
Q202	B-4
Q203	B-4

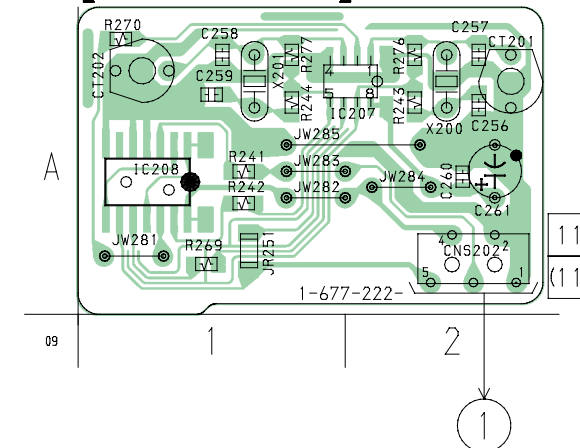
【F-VIDEO BOARD】



【HP BOARD】



【CLOCK BOARD】EXCEPT US, CN, TW



There are few cases that the part isn't mounted in model is printed on diagram.

**5-21. SCHEMATIC DIAGRAM — POWER AMP SECTION — • See page 66 for IC Block Diagrams.**

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

A

B

C

D

E

F

G

H

I

J

K

L

**POWER AMP BOARD**

**IC501** FRONT POWER AMP

**IC502** BOOSTER

**IC503** BOOSTER

**IC552** BOOSTER

**IC553** BOOSTER

**IC601** CENTER POWER AMP

**IC602** BOOSTER

**IC603** BOOSTER

**IC701** REAR POWER AMP

**IC702** BOOSTER

**IC703** BOOSTER

**IC752** BOOSTER

**IC753** BOOSTER

ACMUTE

PROTECT

SP\_A

SP\_B

SP\_C

SP\_S

SP\_W

RY-HP

SP PRE

CNP502 PH59P

CNP503 VHS4P

CNP504 PH56P

CNP602 PH55P

CNP702 VHS6P

CNP508 VHS4P

CNP509 VHS5P

CNP510 PH55P

FL

G

G

FR

CNP601 PH53P

C

G

S.W

SL

G

SR

RY 24V

RY GND

RY-HP

RY SP-B

RY SP-A

CNP602 PH55P

FRONT L

FRONT R

SUB W

PRE GND

SW GND

CNP702 VHS6P

CENTER

C GND

SL

SL GND

SR

SR GND

CNP508 VHS4P

+B

ECAP\_GND

CTAP\_GND

-B

CNP509 VHS5P

+24V

RY GND

RY 24V

GND2

GND2

B0GND

RY 24V

RY GND

+24V

AGND

-24V

CNP510 PH55P

**F** (Page 19)

**O** (Page 36)

**P** (Page 36)

**Q** (Page 36)

**R** (Page 36)

**S** (Page 40)

**U** (Page 26)

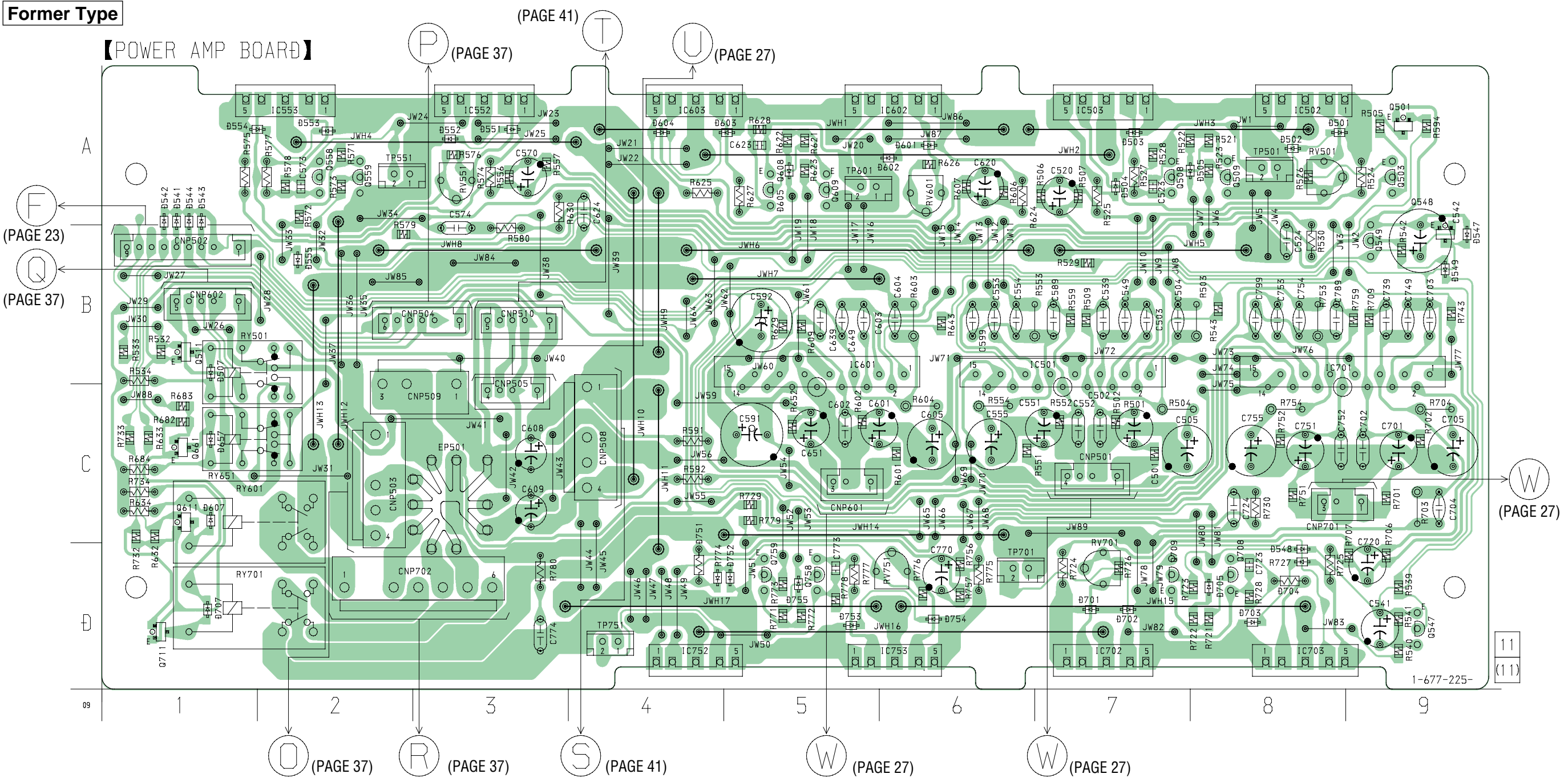
**T** (Page 40)

**W** (Page 26)

以阴影和 ▲ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

5-22. PRINTED WIRING BOARD — POWER AMP SECTION —  
• See page 17 for Circuit Boards Location.

Former Type



• Semiconductor Location

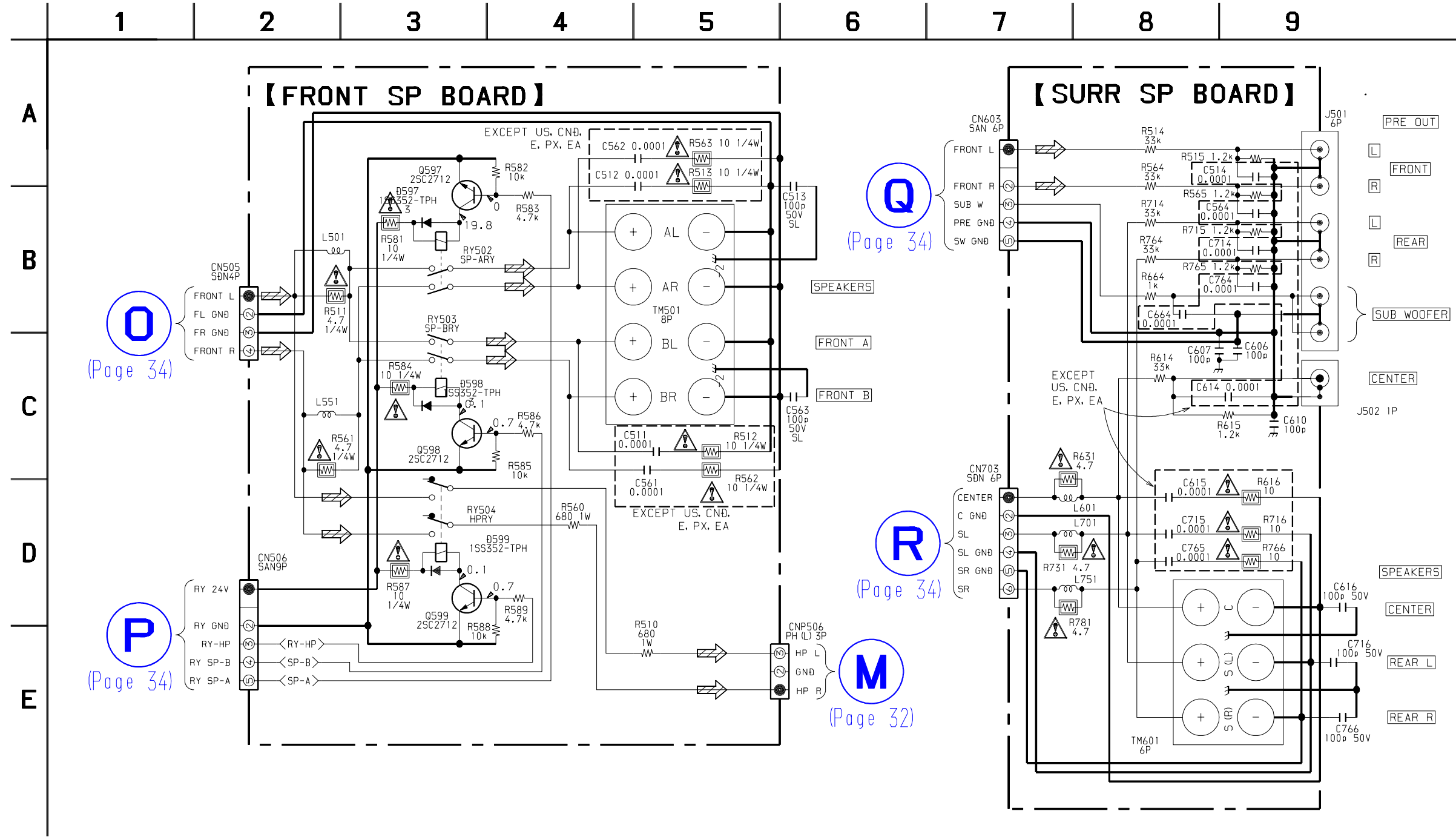
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D501	A-8	D554	A-2	D752	D-5	IC753	D-6	Q709	D-7
D502	A-8	D555	B-2	D753	D-5	Q501	A-9	Q711	D-1
D503	A-7	D601	A-6	D754	D-6	Q503	A-9	Q758	D-5
D504	A-7	D602	A-6	D755	D-5	Q508	A-7	Q759	D-5
D505	A-8	D603	A-5	IC501	A-7	Q509	A-8		
D507	B-1	D604	A-4	IC502	D-8	Q511	B-1		
D541	A-1	D605	A-5	IC503	A-7	Q547	D-9		
D542	A-1	D607	C-1	IC552	A-3	Q548	B-9		
D543	A-1	D657	C-1	IC553	A-2	Q549	B-9		
D544	A-1	D701	D-7	IC601	B-5	Q558	A-2		
D547	B-9	D702	D-7	IC602	A-6	Q559	A-2		
D548	D-8	D703	D-8	IC603	A-4	Q608	A-5		
D549	B-9	D704	D-8	IC701	B-8	Q609	A-5		
D551	A-3	D705	D-8	IC702	D-7	Q611	C-1		
D552	A-3	D707	D-1	IC703	D-8	Q661	C-1		
D553	A-2	D751	D-5	IC752	D-4	Q708	D-8		

There are few cases that the part isn't mounted in model is printed on diagram.



5-23. SCHEMATIC DIAGRAM — FRONT SP SECTION —

Former Type



<b>Note:</b> The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety. Replace only with part number specified.	<b>Note:</b> Les composants identifiés par une marque $\triangle$ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.	以阴影和 $\triangle$ 标志来识别的零部件，在安全方面具有关键性。因此只能以规定号码的零部件来更换。
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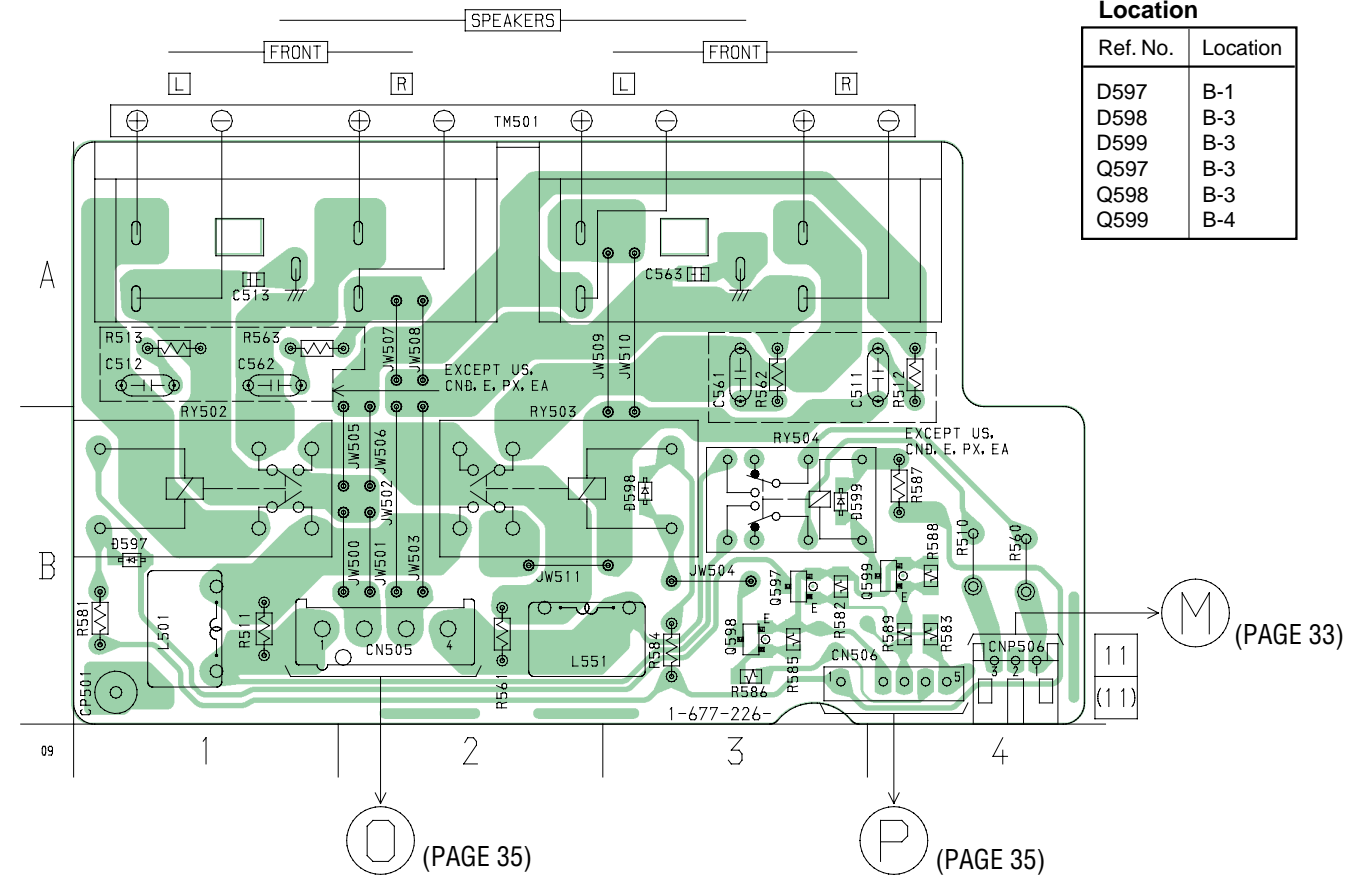


### 5-24. PRINTED WIRING BOARD — FRONT SP SECTION —

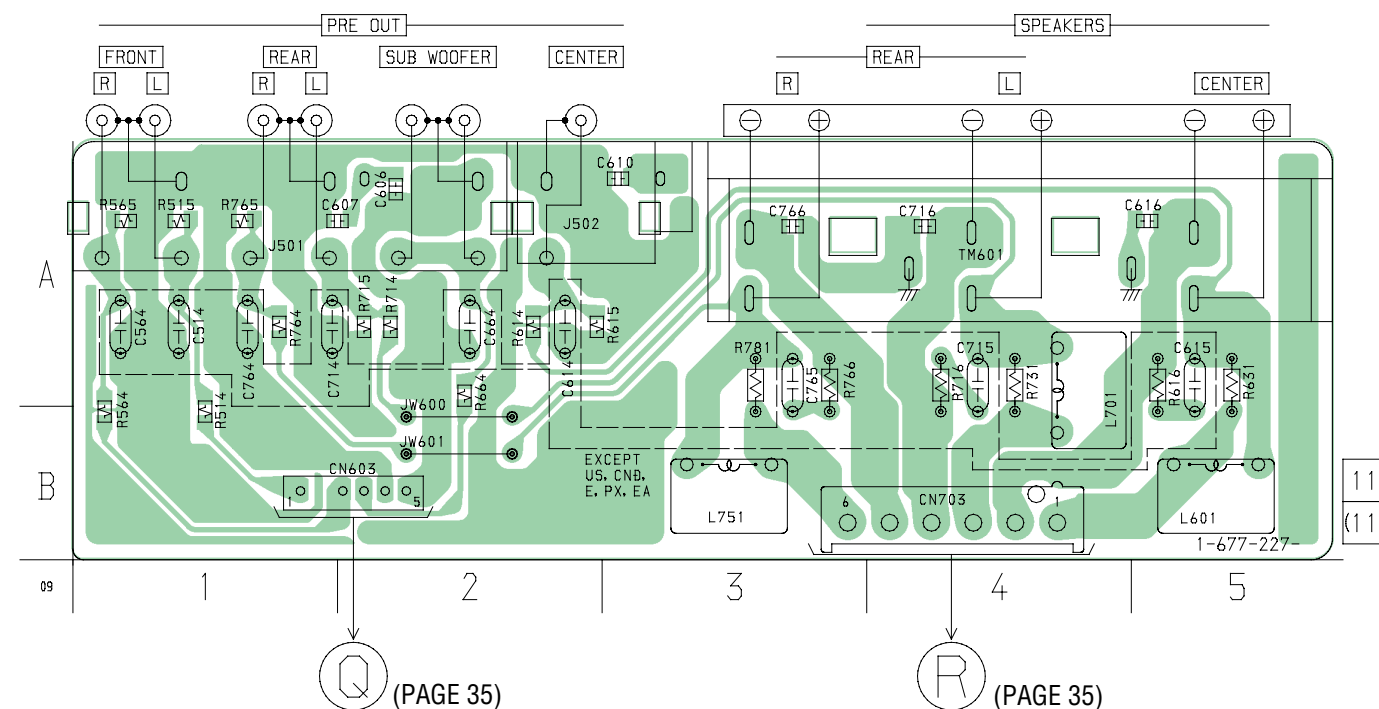
- See page 17 for Circuit Boards Location.

### Former Type

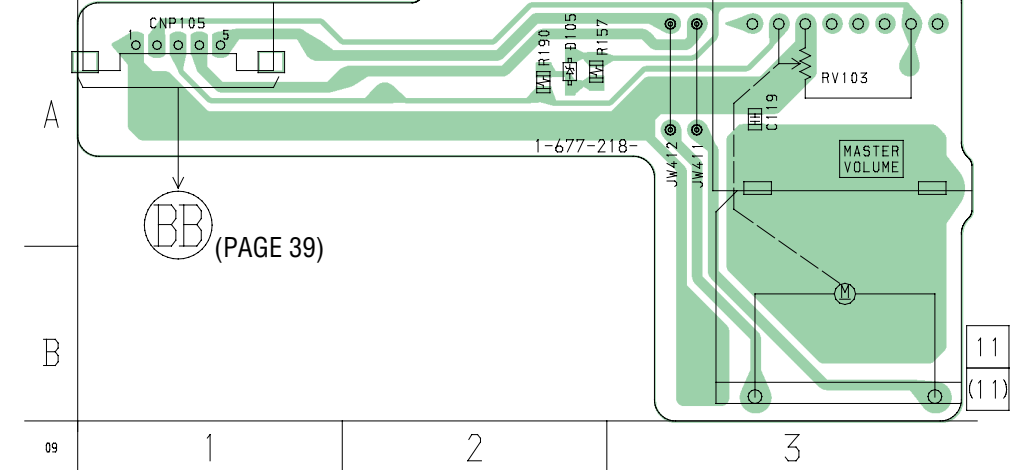
【FRONT SP BOARD】



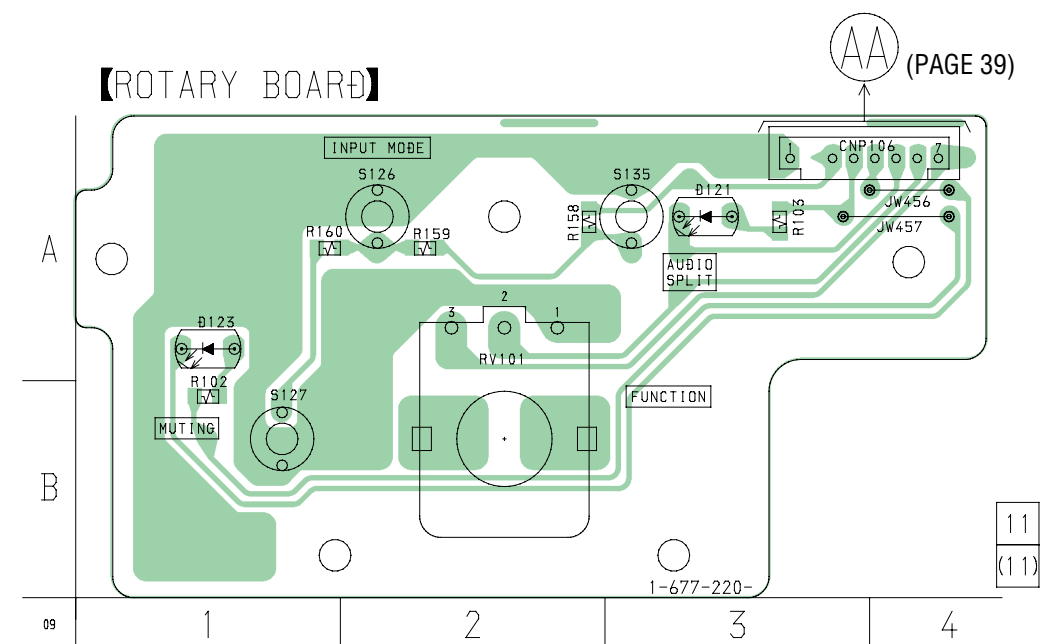
【SURR SP BOARD】



【VOL BOARD】



【ROTARY BOARD】



There are few cases that the part isn't mounted in model is printed on diagram.

**5-25. SCHEMATIC DIAGRAM — DISPLAY SECTION —** • See page 17 for Waveforms. • See page 37 for VOL and ROARY Printed Wiring Board. • See page 69 for IC Pin Function.

**【DISPLAY BOARD】**

**【VOL BOARD】**

**【ROTARY BOARD】**

**IC103** MOTOR DRIVE

**IC101** SERCS RECEIVER

**IC102** DISPLAY CONTROL

**IC104** SERCS I/F

**IC105** SERCS MODULATOR

**FL TUBE DISPLAY**

**FL101**

**RT102** C-T

**Q102** SWITCH

**Q101** LED DRIVE

**Q103** STOP

**Q104** STOP

**Q105** STOP

**Q106** STOP

**Q107** STOP

**Q108** STOP

**Q109** STOP

**Q110** STOP

**Q111** STOP

**Q112** STOP

**Q113** STOP

**Q114** STOP

**Q115** STOP

**Q116** STOP

**Q117** STOP

**Q118** STOP

**Q119** STOP

**Q120** STOP

**Q121** STOP

**Q122** STOP

**Q123** STOP

**Q124** STOP

**Q125** STOP

**Q126** STOP

**Q127** STOP

**Q128** STOP

**Q129** STOP

**Q130** STOP

**Q131** STOP

**Q132** STOP

**Q133** STOP

**Q134** STOP

**Q135** STOP

**Q136** STOP

**Q137** STOP

**Q138** STOP

**Q139** STOP

**Q140** STOP

**Q141** STOP

**Q142** STOP

**Q143** STOP

**Q144** STOP

**Q145** STOP

**Q146** STOP

**Q147** STOP

**Q148** STOP

**Q149** STOP

**Q150** STOP

**Q151** STOP

**Q152** STOP

**Q153** STOP

**Q154** STOP

**Q155** STOP

**Q156** STOP

**Q157** STOP

**Q158** STOP

**Q159** STOP

**Q160** STOP

**Q161** STOP

**Q162** STOP

**Q163** STOP

**Q164** STOP

**Q165** STOP

**Q166** STOP

**Q167** STOP

**Q168** STOP

**Q169** STOP

**Q170** STOP

**Q171** STOP

**Q172** STOP

**Q173** STOP

**Q174** STOP

**Q175** STOP

**Q176** STOP

**Q177** STOP

**Q178** STOP

**Q179** STOP

**Q180** STOP

**Q181** STOP

**Q182** STOP

**Q183** STOP

**Q184** STOP

**Q185** STOP

**Q186** STOP

**Q187** STOP

**Q188** STOP

**Q189** STOP

**Q190** STOP

**Q191** STOP

**Q192** STOP

**Q193** STOP

**Q194** STOP

**Q195** STOP

**Q196** STOP

**Q197** STOP

**Q198** STOP

**Q199** STOP

**Q200** STOP

**Q201** STOP

**Q202** STOP

**Q203** STOP

**Q204** STOP

**Q205** STOP

**Q206** STOP

**Q207** STOP

**Q208** STOP

**Q209** STOP

**Q210** STOP

**Q211** STOP

**Q212** STOP

**Q213** STOP

**Q214** STOP

**Q215** STOP

**Q216** STOP

**Q217** STOP

**Q218** STOP

**Q219** STOP

**Q220** STOP

**Q221** STOP

**Q222** STOP

**Q223** STOP

**Q224** STOP

**Q225** STOP

**Q226** STOP

**Q227** STOP

**Q228** STOP

**Q229** STOP

**Q230** STOP

**Q231** STOP

**Q232** STOP

**Q233** STOP

**Q234** STOP

**Q235** STOP

**Q236** STOP

**Q237** STOP

**Q238** STOP

**Q239** STOP

**Q240** STOP

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**Q247** STOP

**Q248** STOP

**Q249** STOP

**Q250** STOP

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**Q254** STOP

**Q255** STOP

**Q256** STOP

**Q257** STOP

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**Q272** STOP

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**Q296** STOP

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**Q300** STOP

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**Q311** STOP

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**Q313** STOP

**Q314** STOP

**Q315** STOP

**Q316** STOP

**Q317** STOP

**Q318** STOP

**Q319** STOP

**Q320** STOP

**Q321** STOP

**Q322** STOP

**Q323** STOP

**Q324** STOP

**Q325** STOP

**Q326** STOP

**Q327** STOP

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**Q330** STOP

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**Q334** STOP

**Q335** STOP

**Q336** STOP

**Q337** STOP

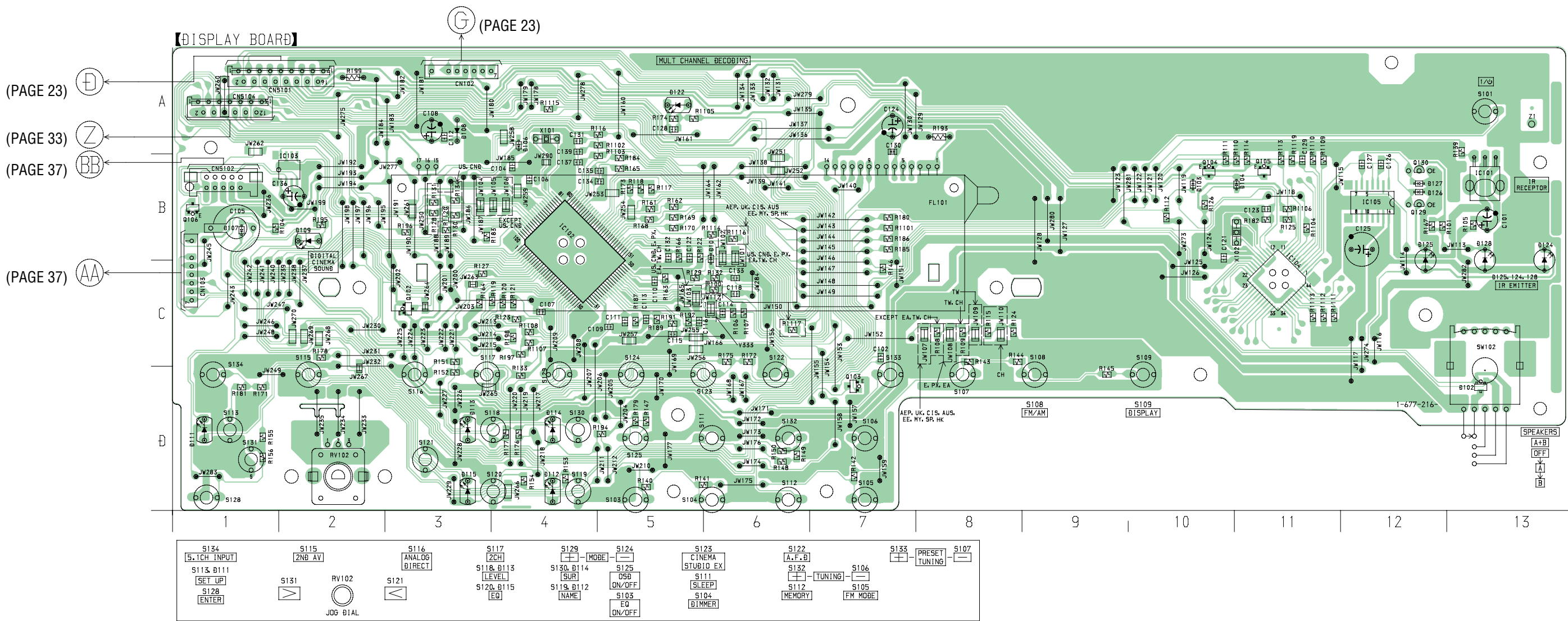
**Q338** STOP

**Note:**  
Les composants identifiés par une marque  sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le numéro spécifié.

以阴影和  $\triangle$  标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

5-26. PRINTED WIRING BOARD — DISPLAY SECTION —  
• See page 17 for Circuit Boards Location.

Former Type



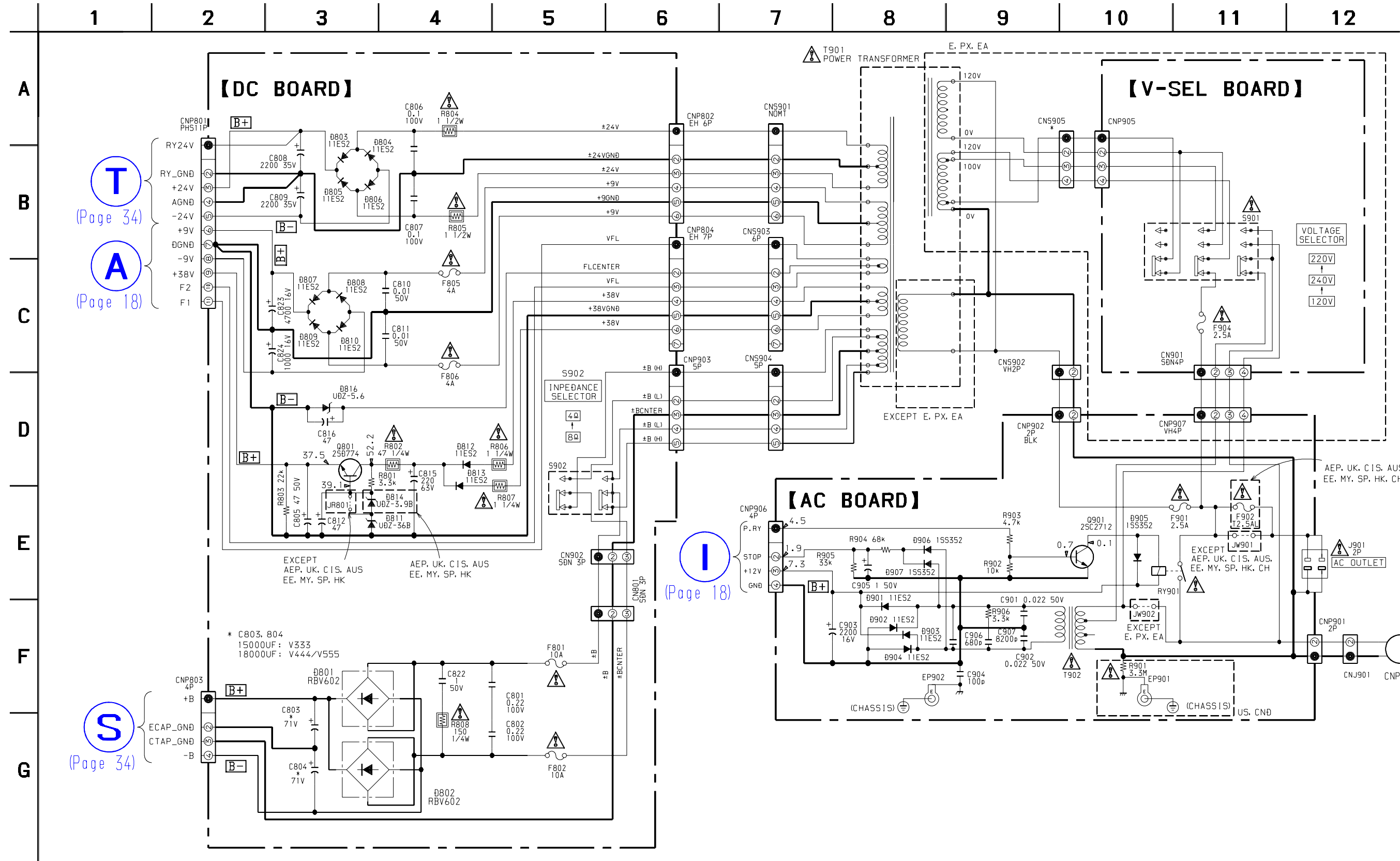
• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D101	C-6	D126	B-12
D102	D-13	D127	B-12
D103	B-10	D128	B-13
D104	B-10	IC101	B-13
D106	A-4	IC102	B-4
D107	B-1	IC103	B-2
D108	A-3	IC104	C-11
D109	B-2	IC105	B-12
D111	D-1	Q102	C-3
D112	D-4	Q103	D-7
D113	D-3	Q104	B-10
D114	D-4	Q105	B-11
D115	D-3	Q106	B-1
D122	A-5	Q129	B-12
D124	B-13	Q130	B-12
D125	B-12		

There are few cases that the part isn't mounted in model is printed on diagram.

5-27. SCHEMATIC DIAGRAM — DC POWER SECTION —

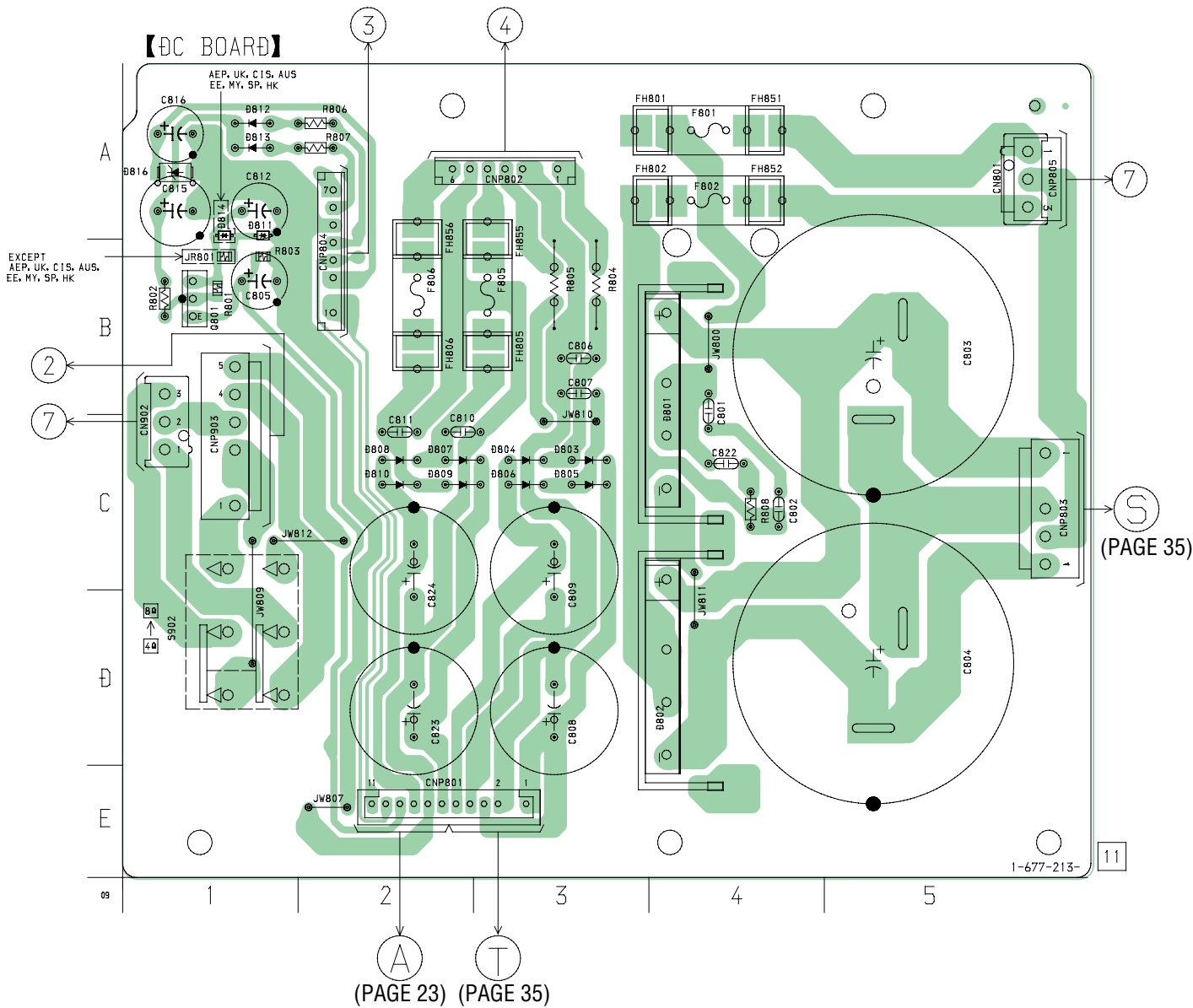
Former Type





5-28. PRINTED WIRING BOARD — DC POWER SECTION —  
• See page 17 for Circuit Boards Location.

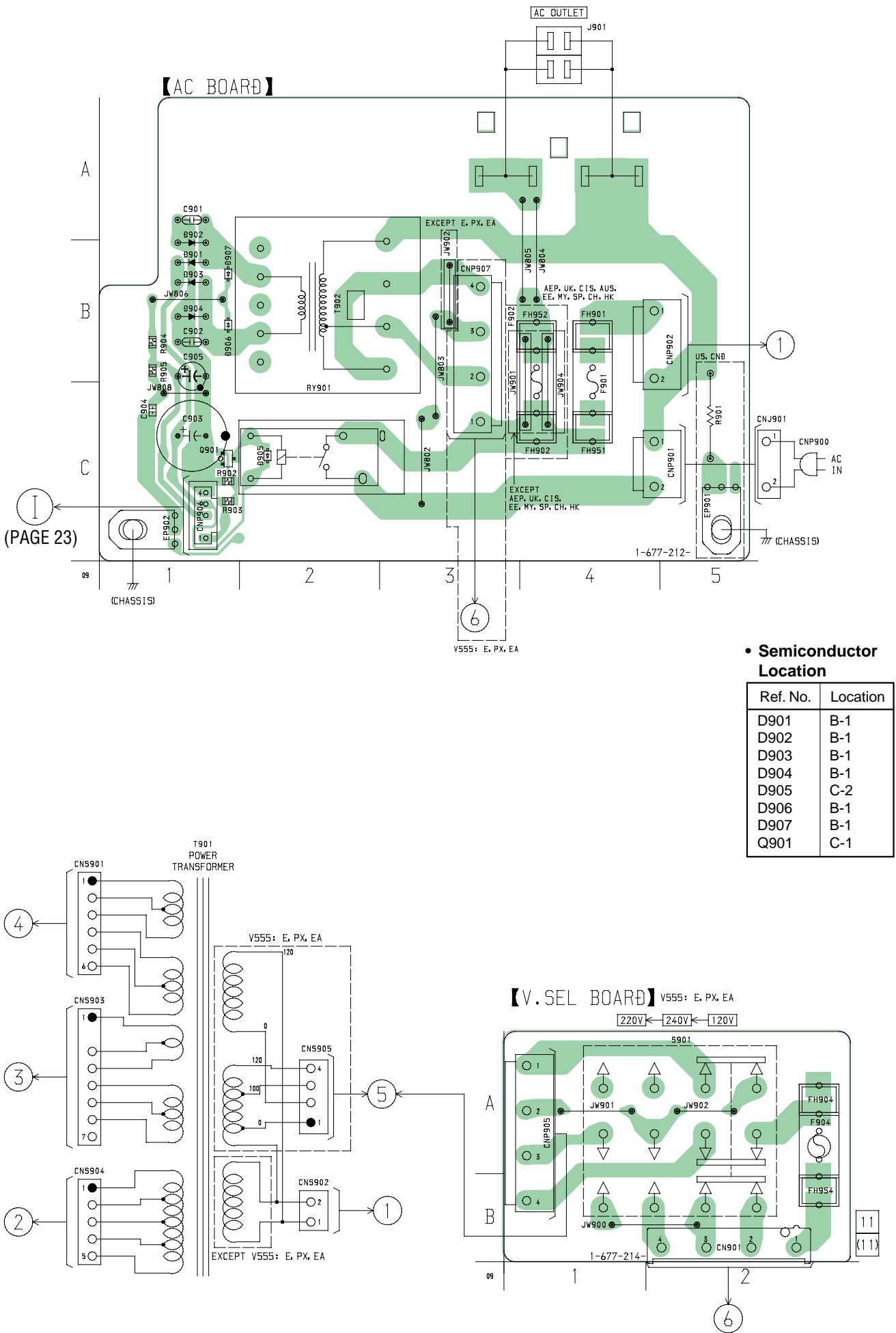
Former Type



• Semiconductor Location

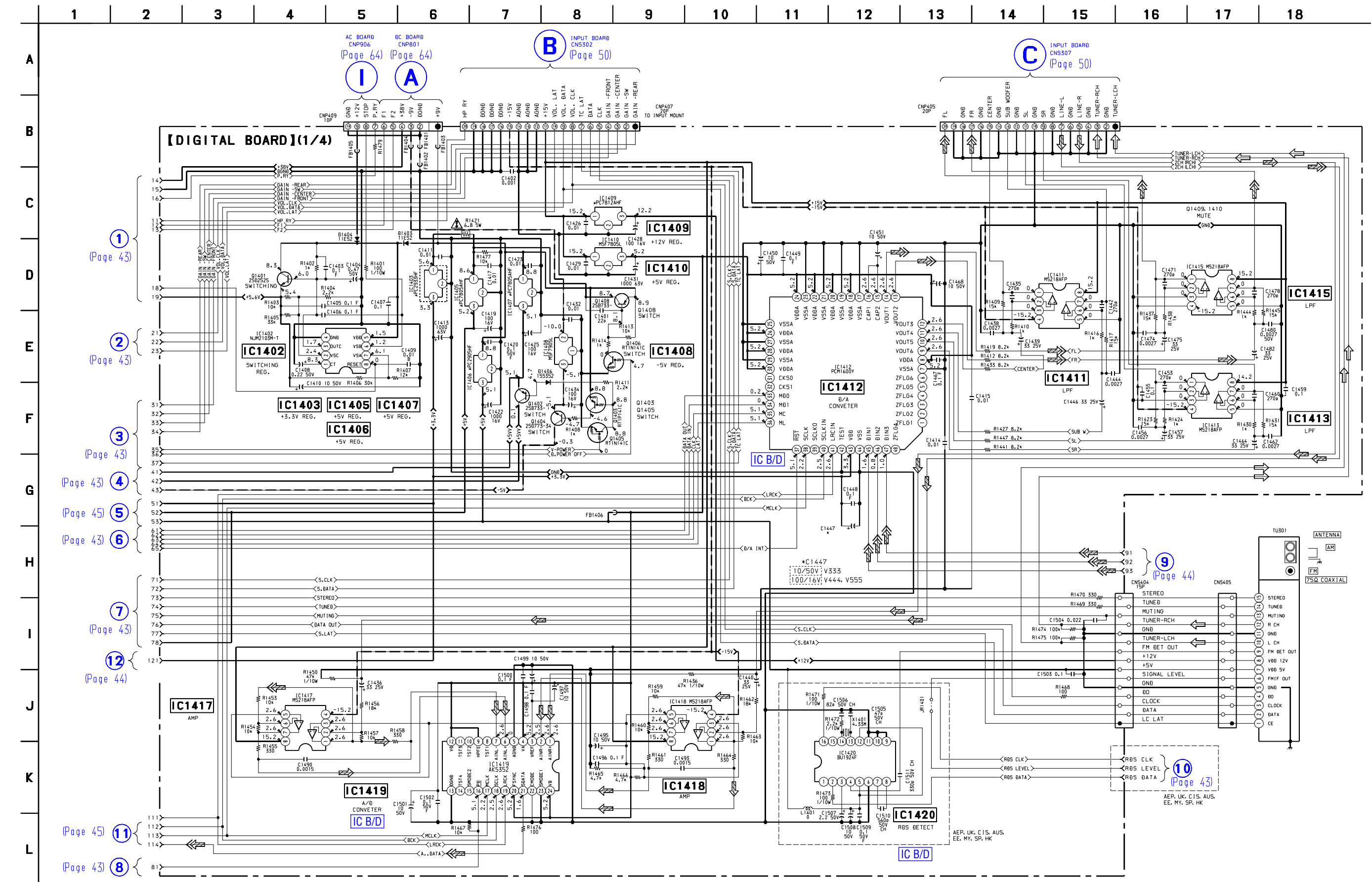
Ref. No.	Location
D801	C-4
D802	D-4
D803	C-3
D804	C-3
D805	C-3
D806	C-3
D807	C-2
D808	C-2
D809	C-2
D810	C-2
D811	A-1
D812	A-1
D813	A-1
D814	A-1
D816	A-1
Q801	B-1

There are few cases that the part isn't mounted  
in model is printed on diagram.



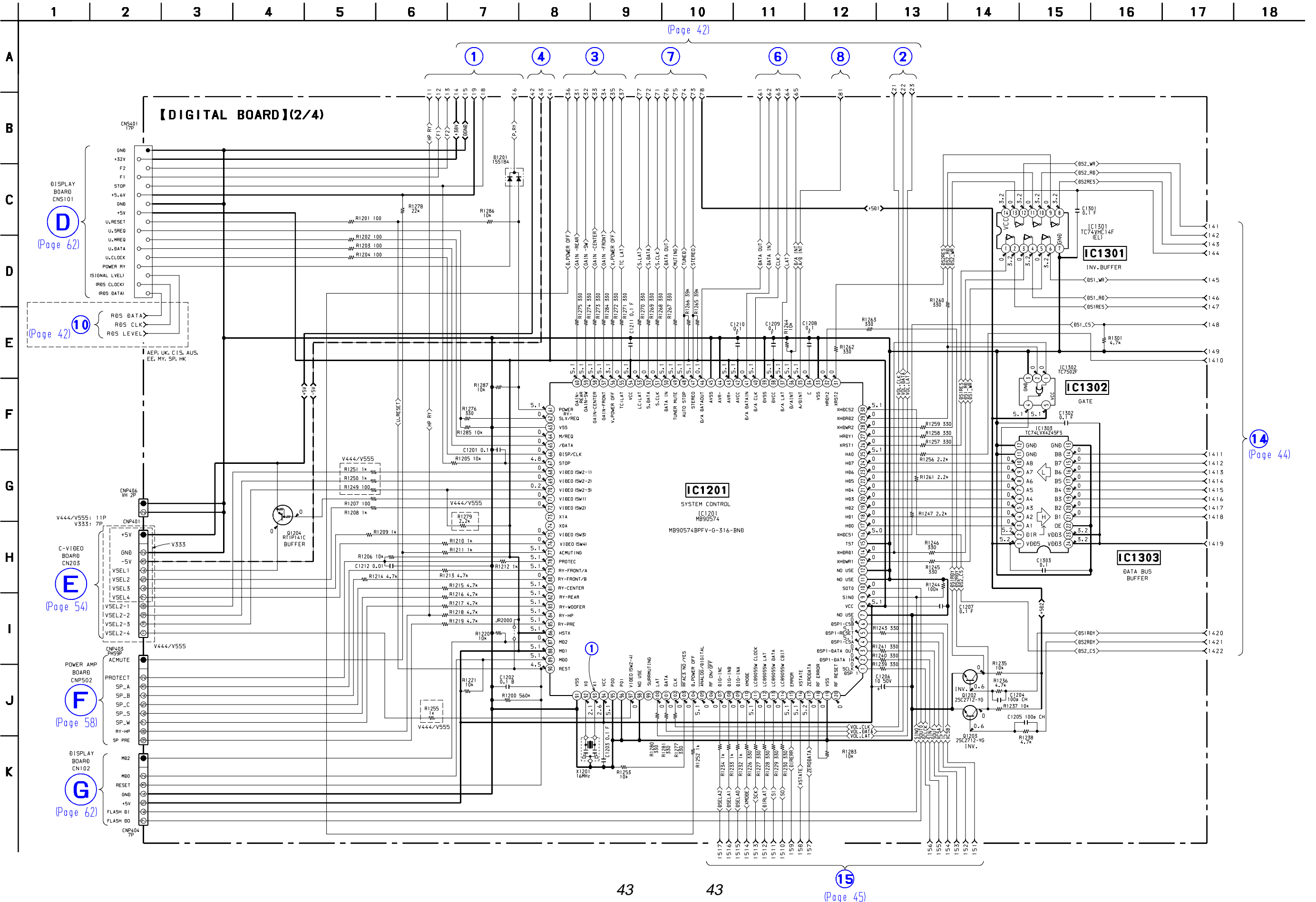
**5-29. SCHEMATIC DIAGRAM — DIGITAL (1/4) SECTION —** • See page 46, 47 for Printed Wiring Board. • See page 66 for IC Block Diagrams.

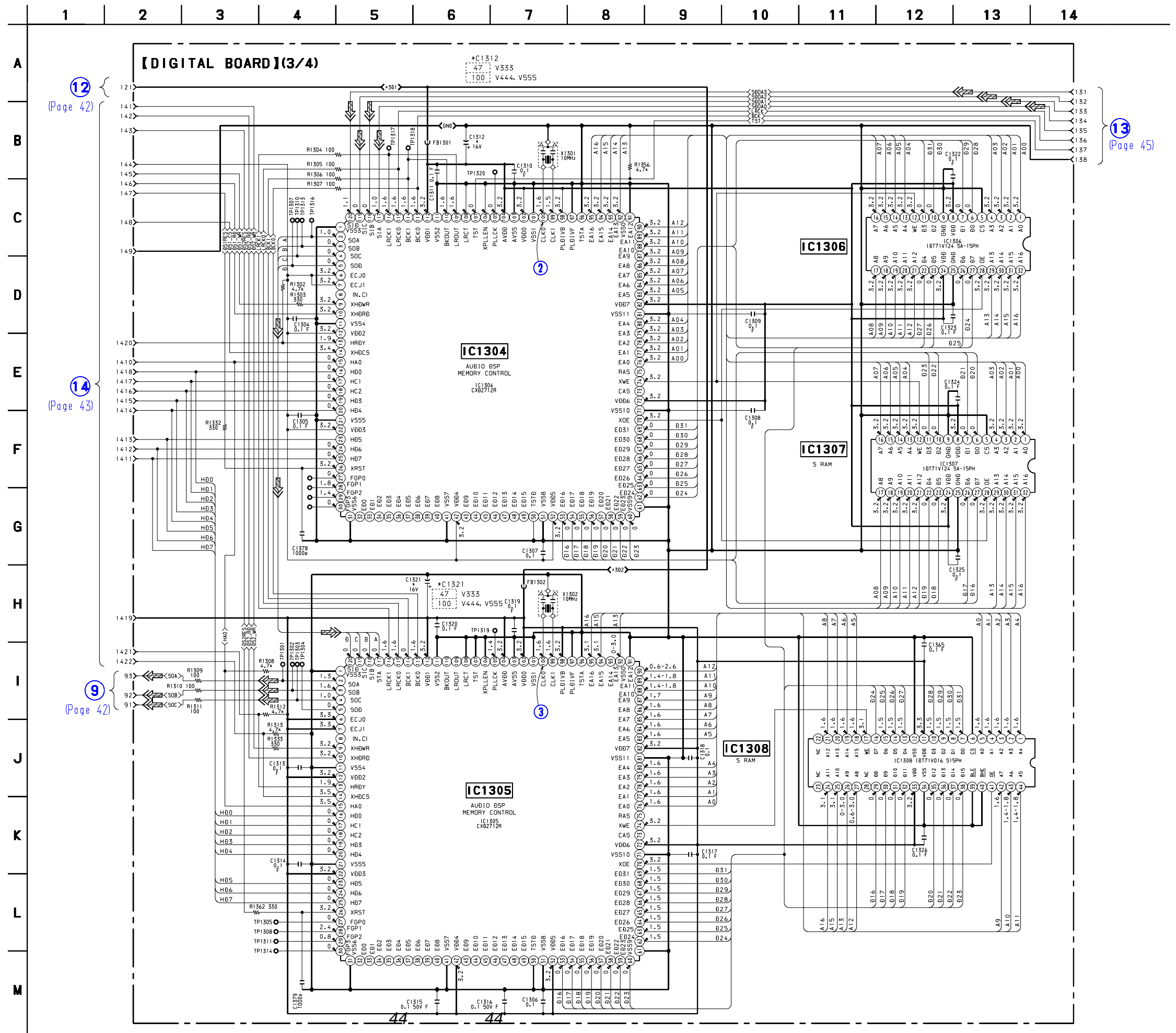
### New Type



5-30. SCHEMATIC DIAGRAM — DIGITAL (2/4) SECTION — • See page 17 for Waveforms.  
• See page 46, 47 for Printed Wiring Board.  
• See page 71 for IC Pin Function.

New Type

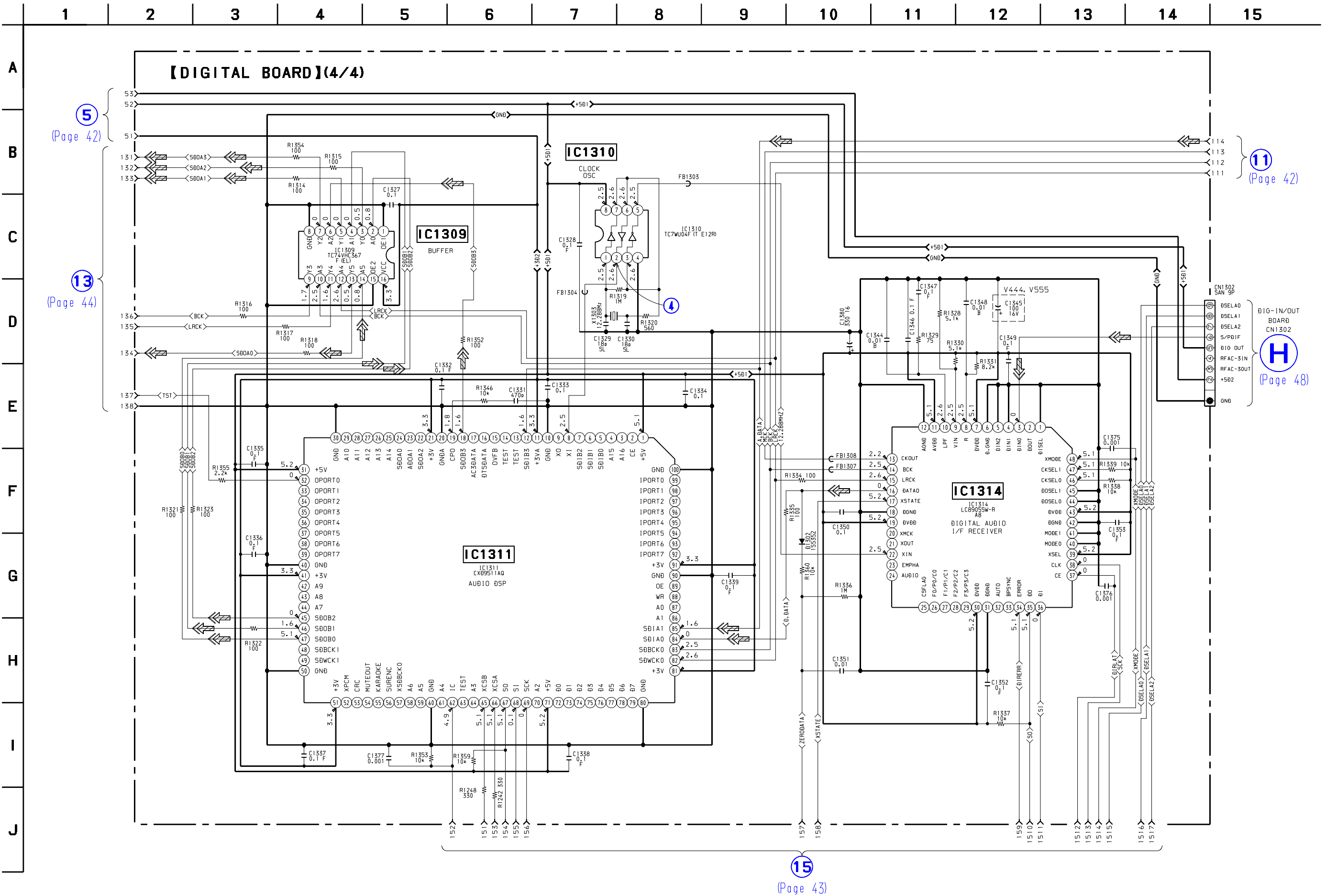






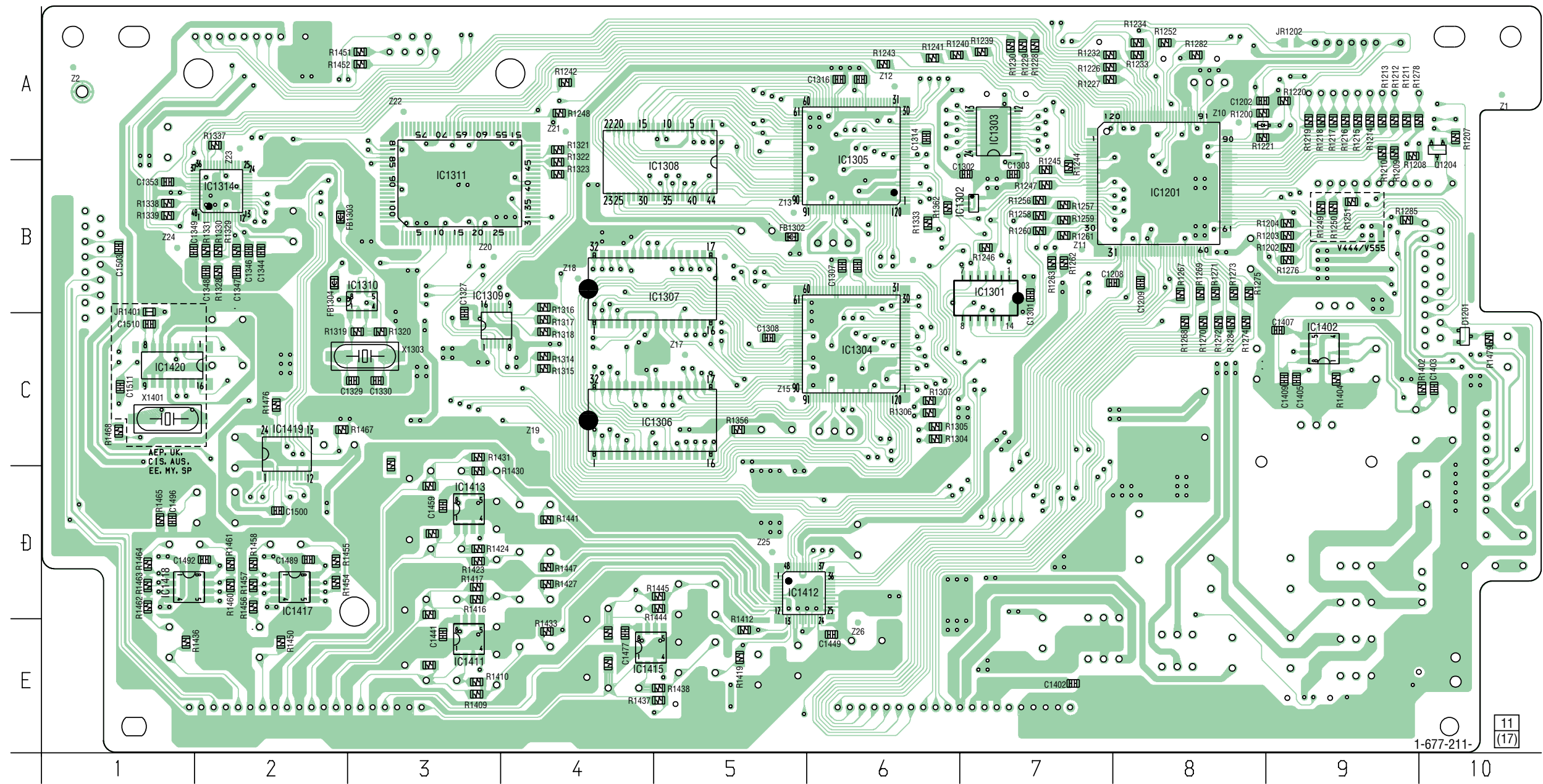
5-32. SCHEMATIC DIAGRAM — DIGITAL (4/4) SECTION — • See page 46, 47 for Printed Wiring Board. • See page 17 for Waveforms.

New Type



## New Type

**【DIGITAL BOARD】 (SIDE A)**



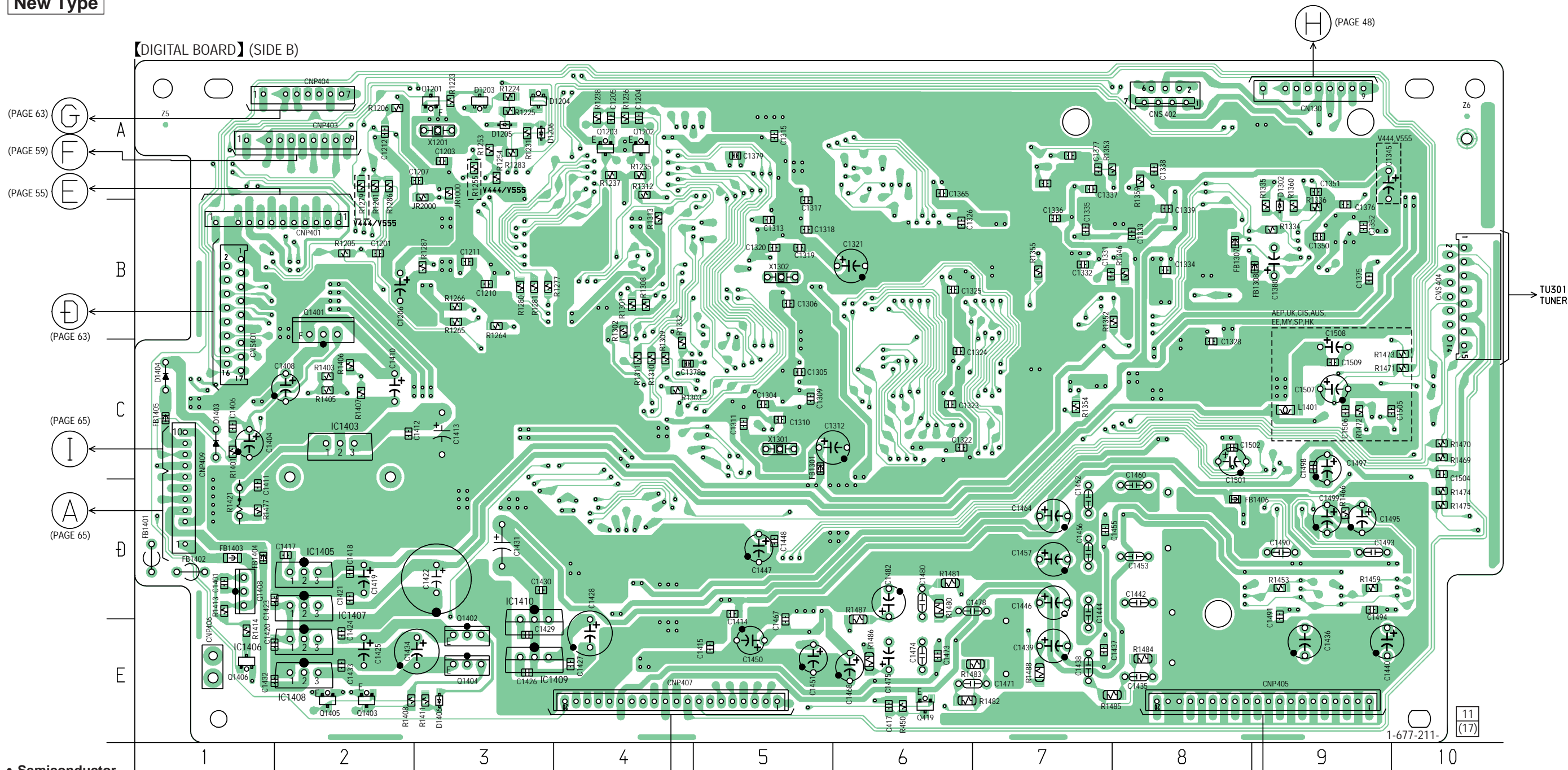
- **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D1201	C-10	IC1311	B-3
D1202	A-8	IC1314	B-2
IC1201	B-8	IC1402	C-9
IC1301	B-7	IC1411	E-3
IC1302	B-7	IC1412	D-5
IC1303	A-7	IC1413	D-3
IC1304	C-6	IC1415	E-4
IC1305	A-6	IC1417	D-2
IC1306	C-4	IC1418	D-1
IC1307	B-4	IC1419	C-2
IC1308	B-4	IC1420	C-1
IC1309	C-3	Q1204	A-10
IC1310	B-3		

There are few cases that the part isn't mounted in model is printed on diagram.

5-34. PRINTED WIRING BOARD — DIGITAL (SIDE B) SECTION — • See page 17 for Circuit Boards Location.

New Type



• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D1203	A-3	Q419	E-6
D1204	A-3	Q1201	A-3
D1205	A-3	Q1202	A-4
D1302	A-9	Q1203	A-4
D1401	E-7	Q1401	B-2
D1402	D-8	Q1402	E-3
D1403	C-1	Q1403	E-2
D1404	C-1	Q1404	E-3
D1405	E-8	Q1405	E-2
D1406	E-3	Q1406	E-1
IC1403	C-2	Q1408	D-1
IC1405	D-2		
IC1406	E-2		
IC1407	D-2		
IC1408	E-2		
IC1409	E-3		
IC1410	E-3		

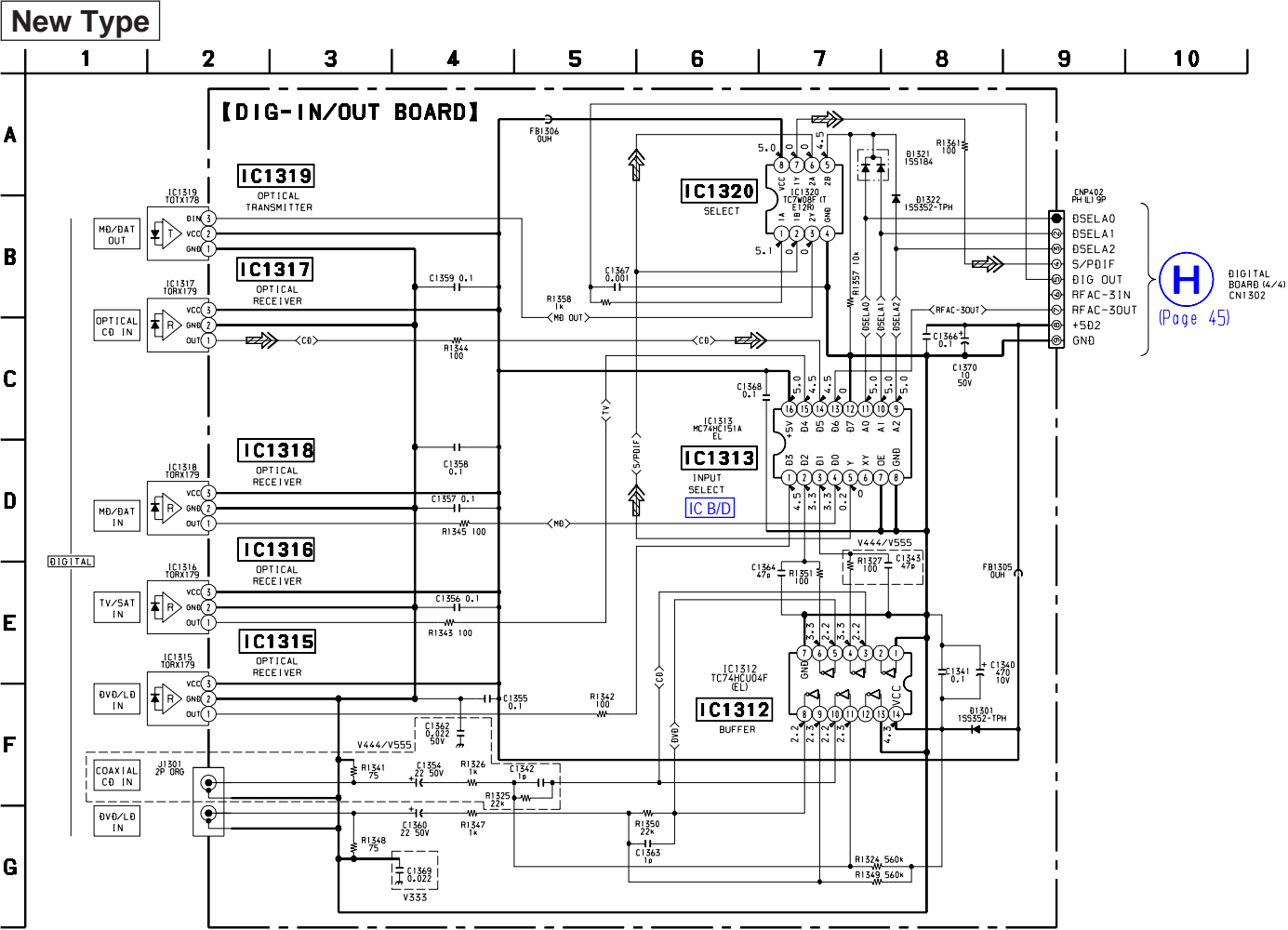
B (PAGE 51)

C (PAGE 51)

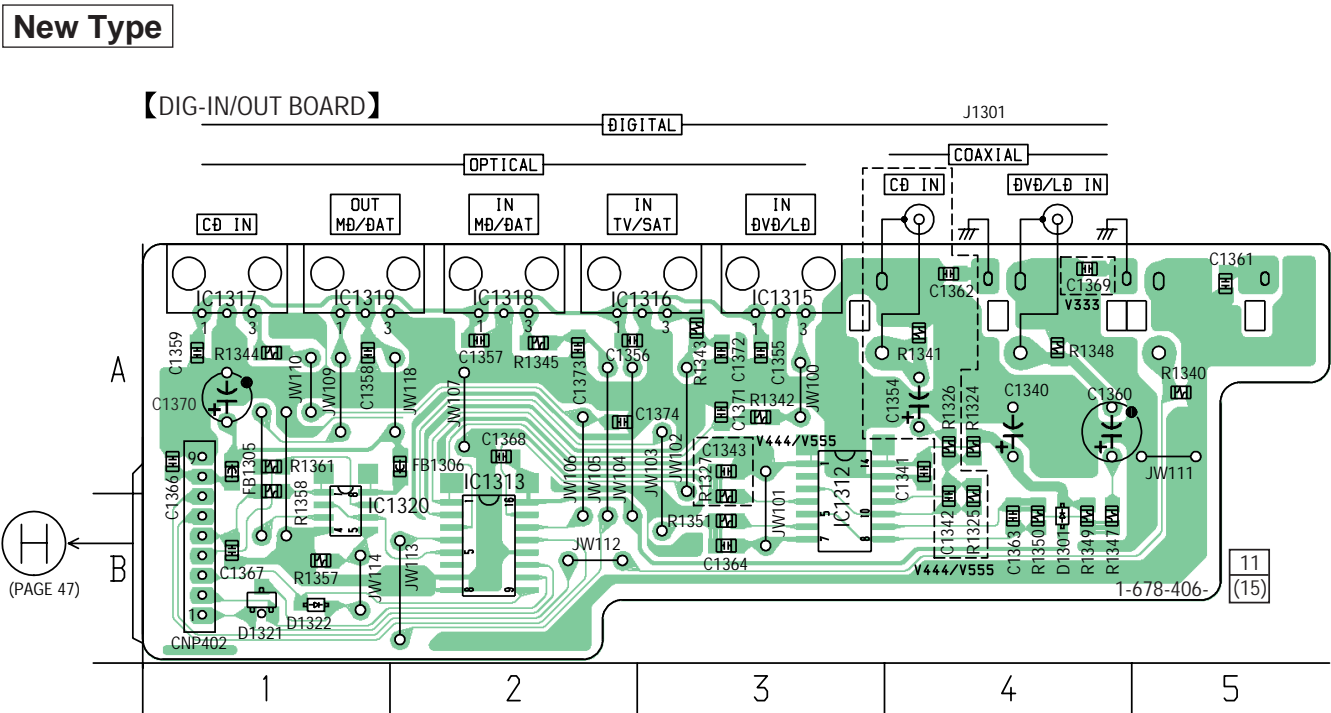
There are few cases that the part isn't mounted in model is printed on diagram.



5-35. SCHEMATIC DIAGRAM — DIGITAL IN/OUT SECTION —  
• See page 66 for IC Block Diagrams.



5-36. PRINTED WIRING BOARD — DIGITAL IN/OUT SECTION —  
• See page 17 for Circuit Boards Location.



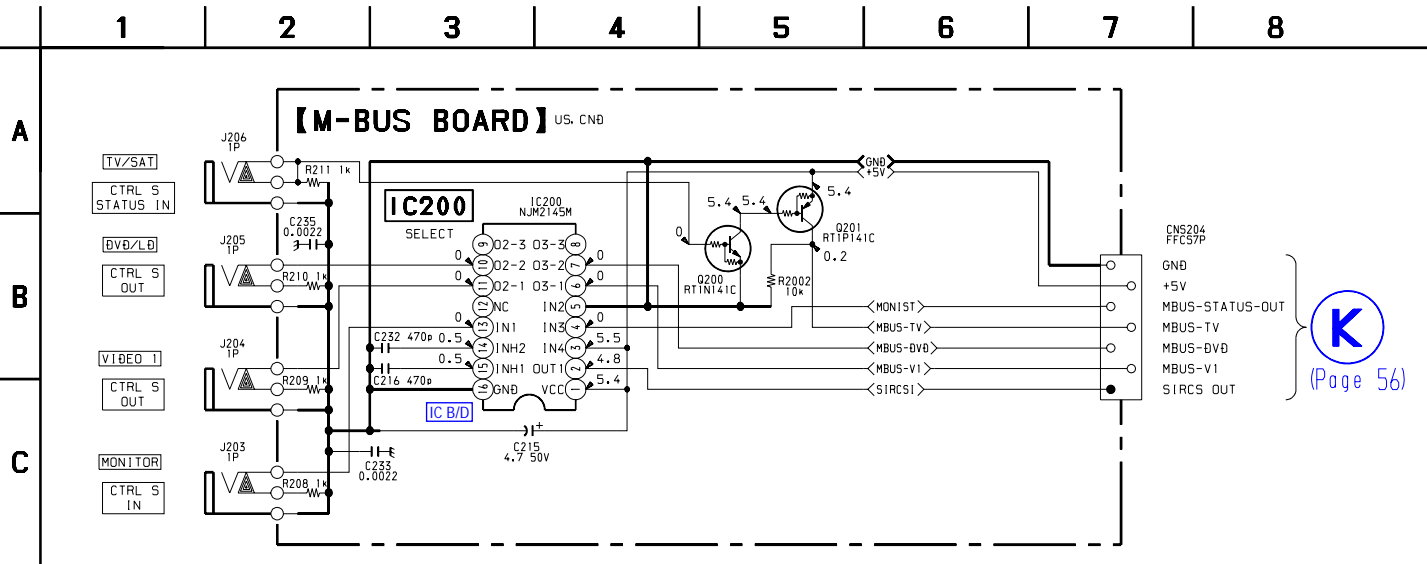
• Semiconductor Location

Ref. No.	Location
D1301	B-4
D1321	B-1
D1322	B-1
IC1312	B-3
IC1313	B-2
IC1315	A-3
IC1316	A-2
IC1317	A-1
IC1318	A-2
IC1319	A-1
IC1320	B-1

There are few cases that the part isn't mounted in model is printed on diagram.

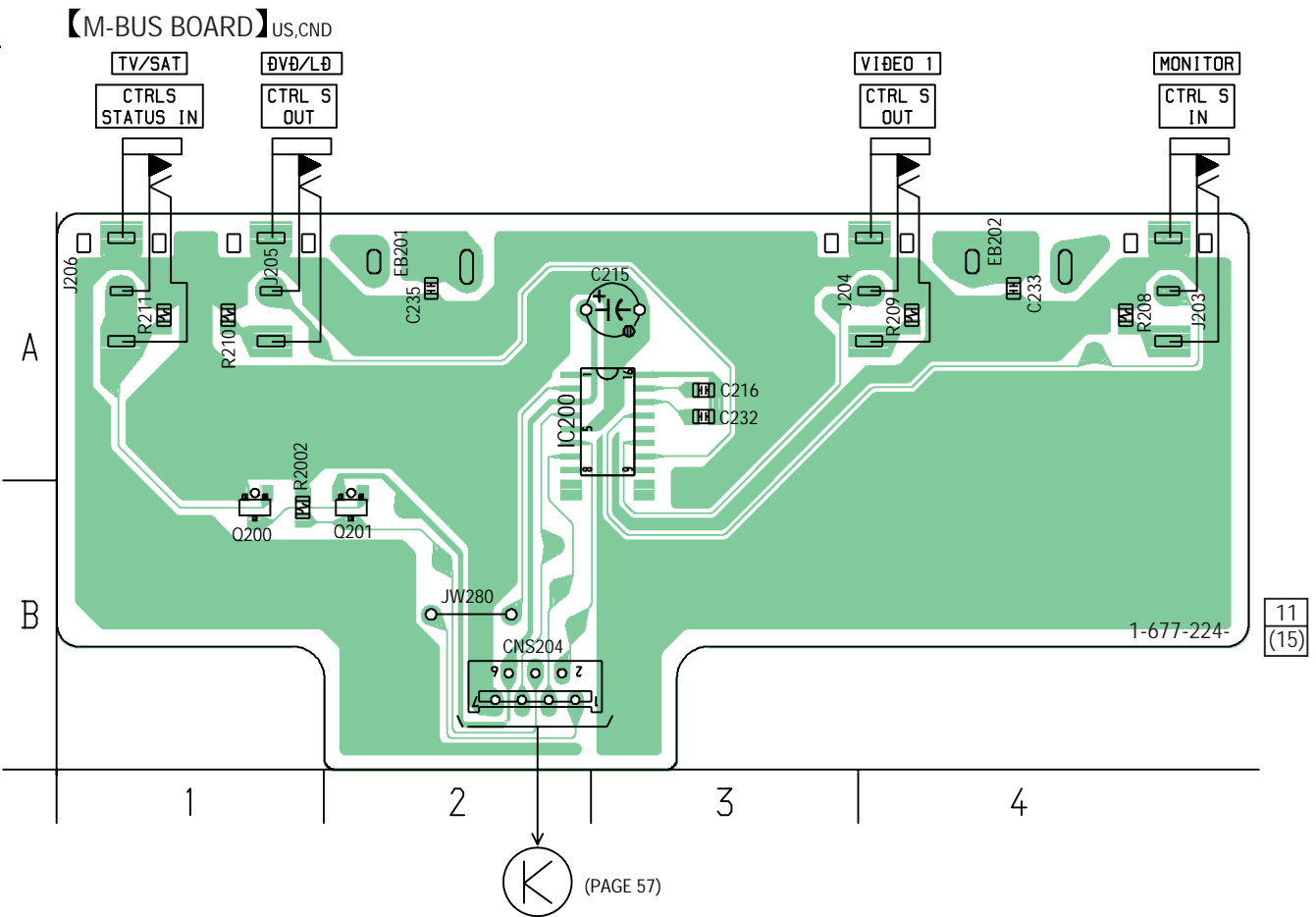
5-37. SCHEMATIC DIAGRAM — M-BUS SECTION —  
• See page 66 for IC Block Diagrams.

New Type



5-38. PRINTED WIRING BOARD — M-BUS SECTION —  
• See page 15 for Circuit Boards Location.

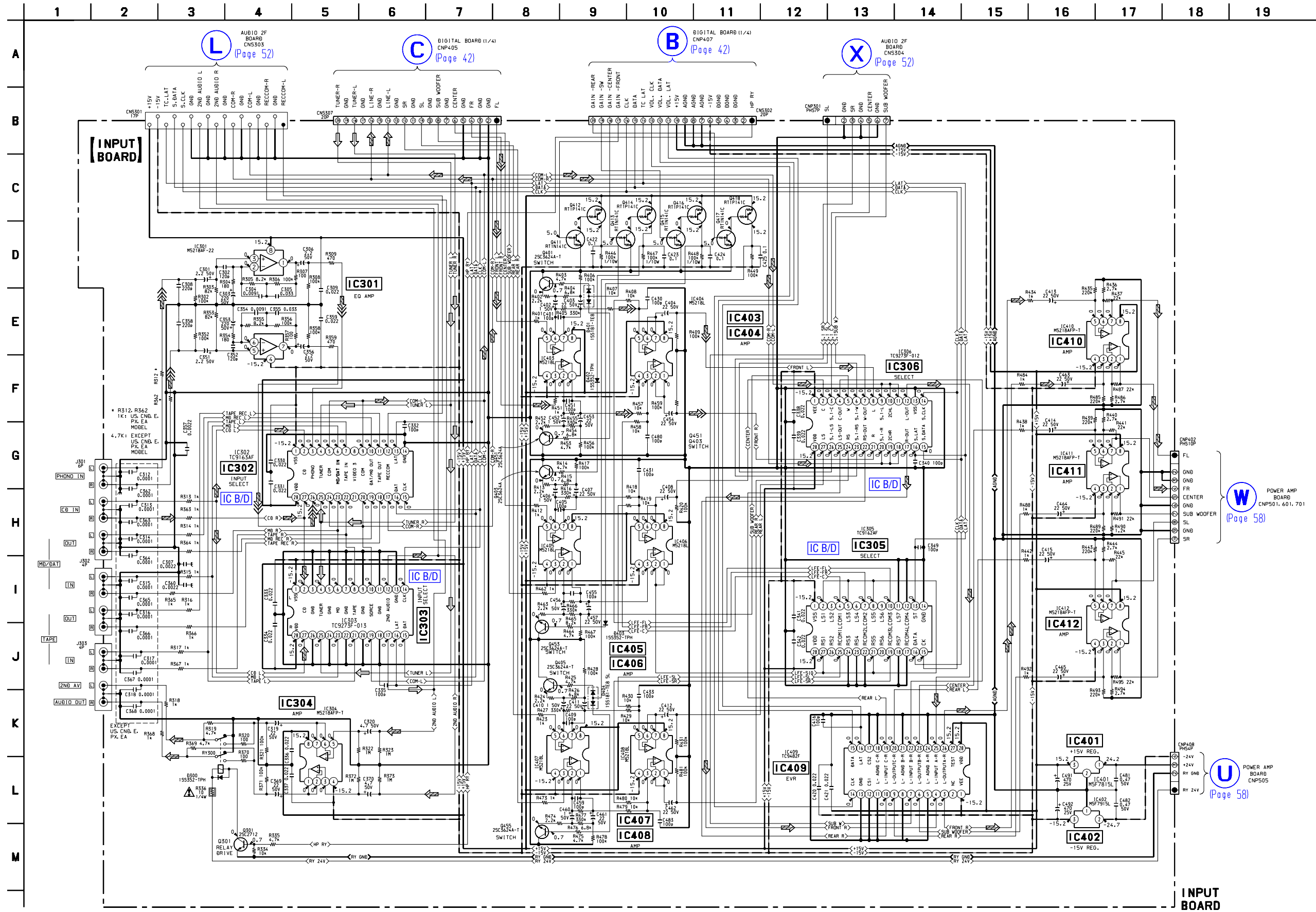
New Type



There are few cases that the part isn't mounted in model is printed on diagram.



5-39. SCHEMATIC DIAGRAM — INPUT SECTION —  
New Type • See page 66, 67, 68 for IC Block Diagrams.



**Note:**  
The components identified by mark  $\Delta$  or dotted line with mark  $\Delta$  are critical for safety. Replace only with part number specified.

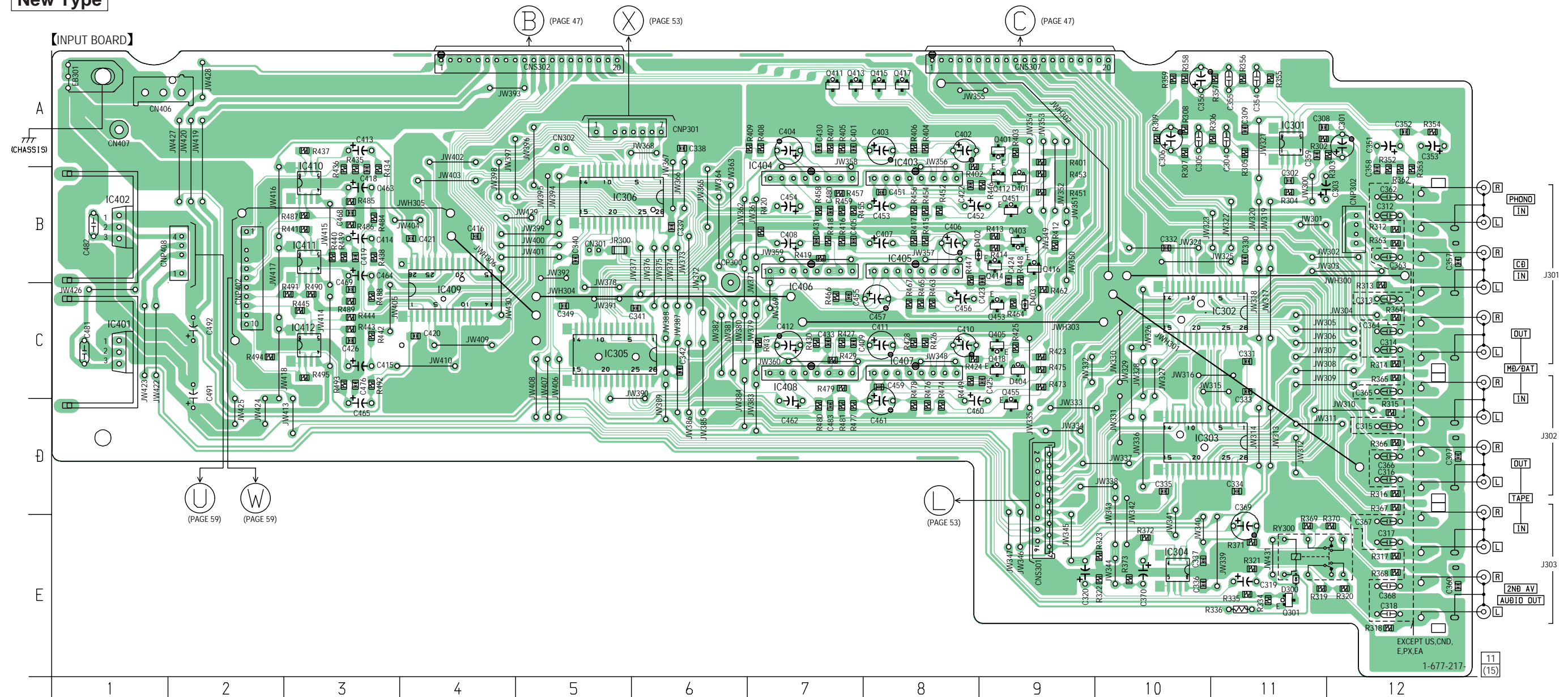
**Note:**  
Les composants identifiés par une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

以阴影和  $\Delta$  标志来识别的零部件，在安全方面具有关键性。因此只能以规定号码的零部件来更换。

#### 5-40. PRINTED WIRING BOARD — INPUT SECTION —

- See page 17 for Circuit Boards Location.

**New Type**



- **Semiconductor Location**

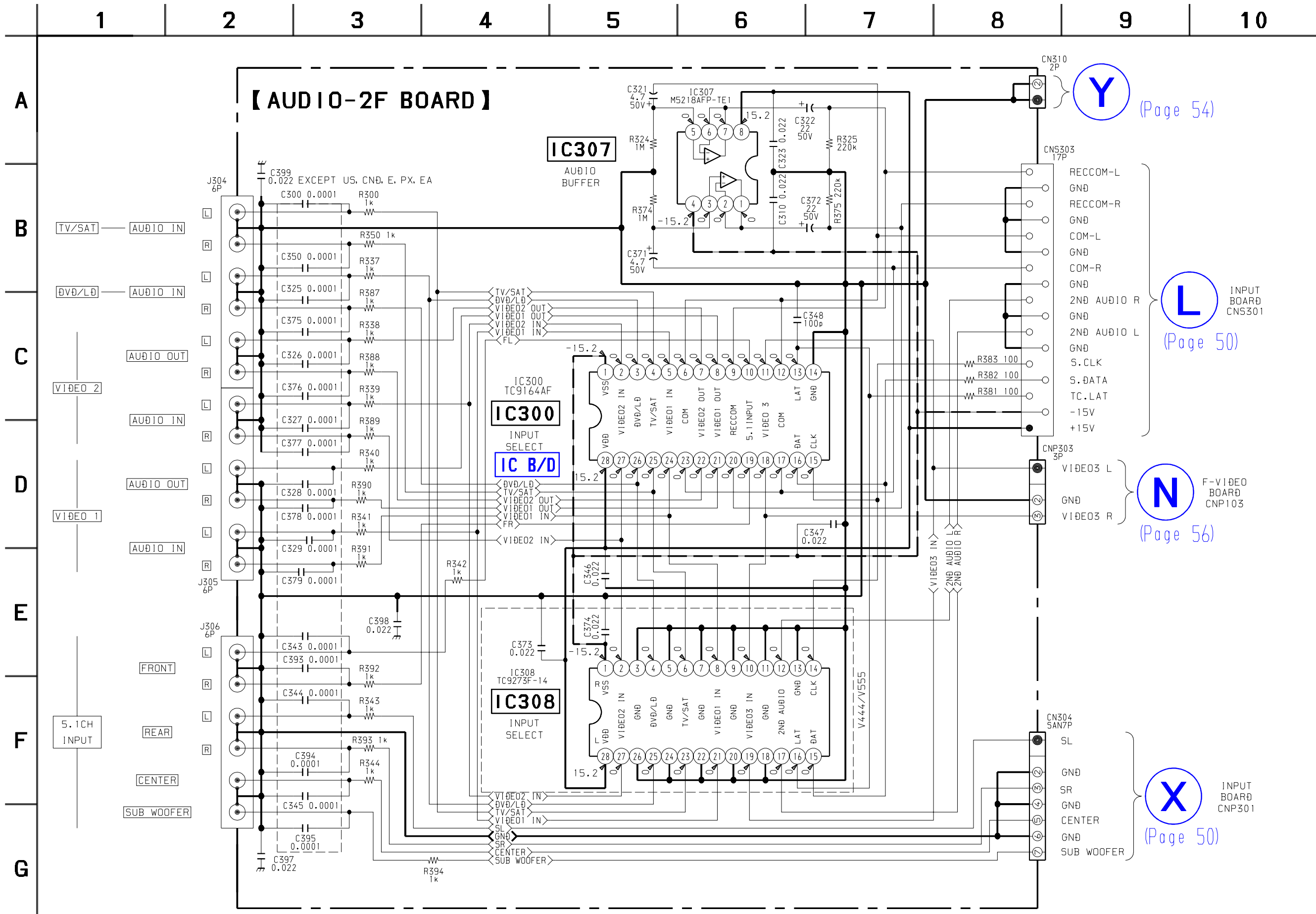
Ref. No.	Location	Ref. No.	Location
D300	E-11	IC409	C-4
D401	B-9	IC410	B-3
D402	B-9	IC411	B-3
D403	C-9	IC412	C-3
D404	C-9	Q301	E-11
IC301	A-11	Q401	A-9
IC302	C-11	Q403	B-9
IC303	D-11	Q405	C-9
IC304	E-10	Q411	A-7
IC305	C-5	Q412	B-9
IC306	B-5	Q413	A-7
IC401	C-1	Q414	B-9
IC402	B-1	Q415	A-8
IC403	B-8	Q416	B-9
IC404	B-7	Q417	A-8
IC405	B-8	Q418	C-9
IC406	B-7	Q451	B-9
IC407	C-8	Q453	C-9
IC408	C-7	Q455	D-9

There are few cases that the part isn't mounted in model is printed on diagram.

5-41. SCHEMATIC DIAGRAM — AUDIO 2F SECTION —

• See page 68 for IC Block Diagrams.

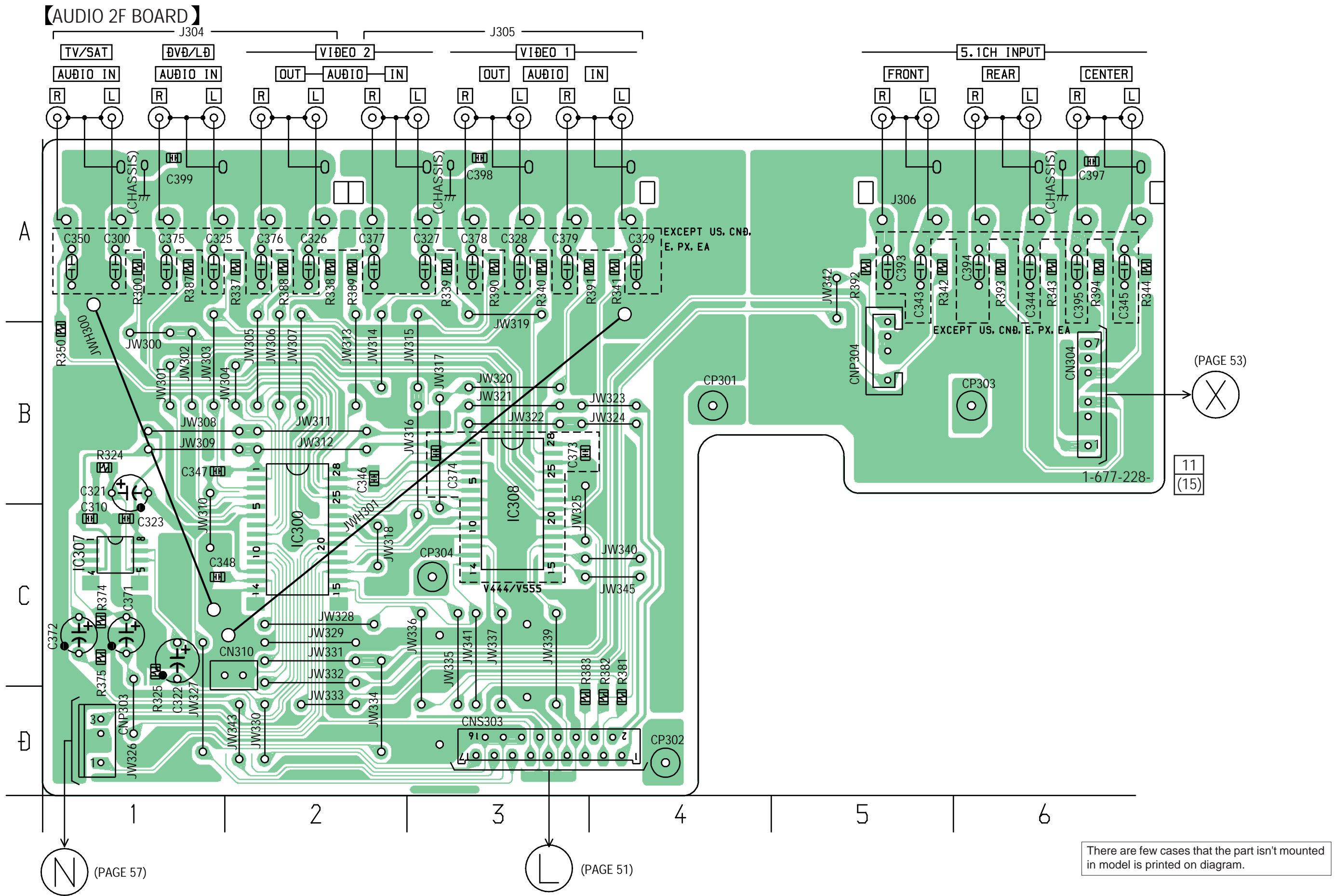
New Type





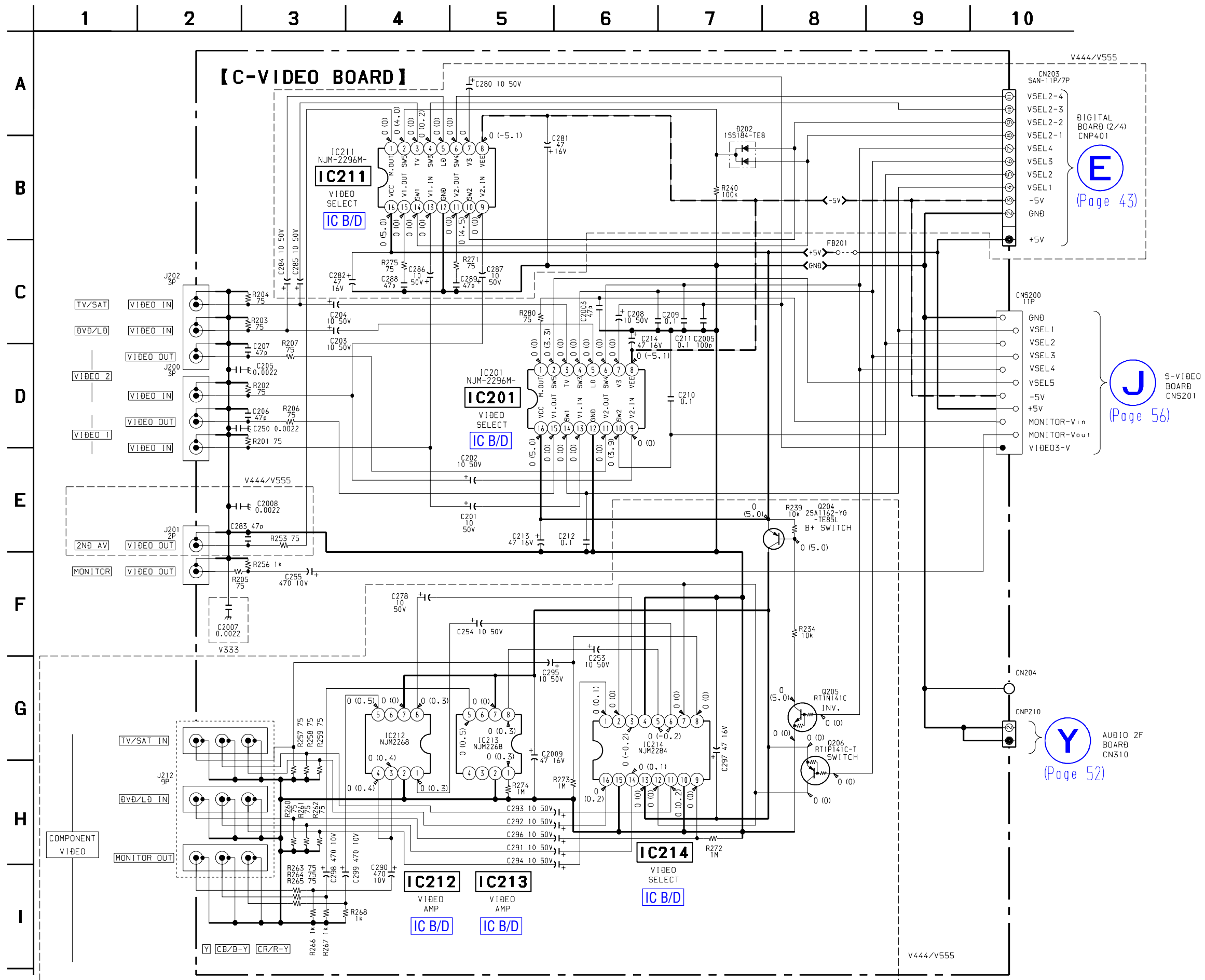
5-42. PRINTED WIRING BOARD — AUDIO 2F SECTION —  
• See page 17 for Circuit Boards Location.

New Type



5-43. SCHEMATIC DIAGRAM — C-VIDEO SECTION — • See page 66, 67 for IC Block Diagrams.

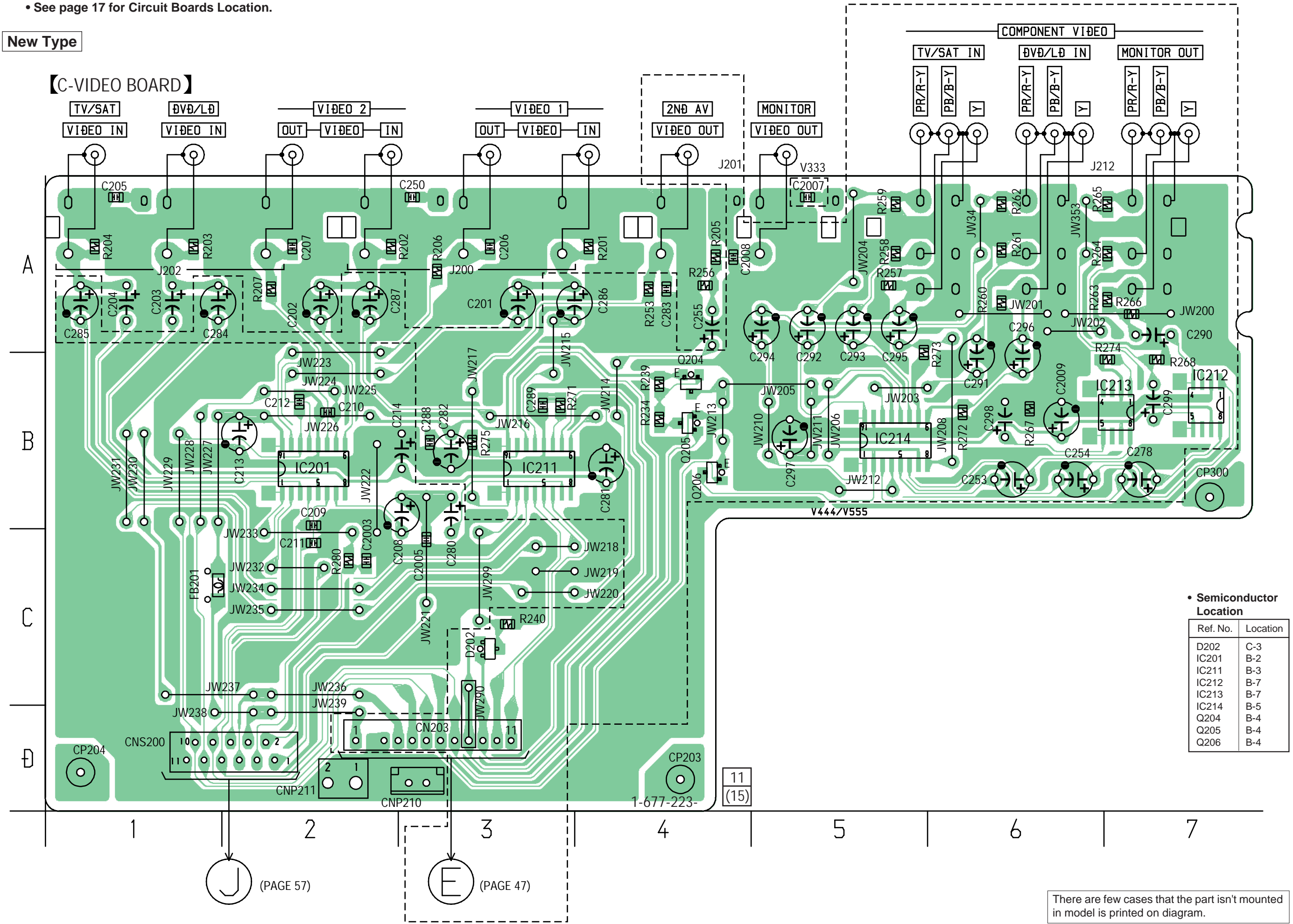
New Type





5-44. PRINTED WIRING BOARD — C-VIDEO SECTION —  
• See page 17 for Circuit Boards Location.

New Type

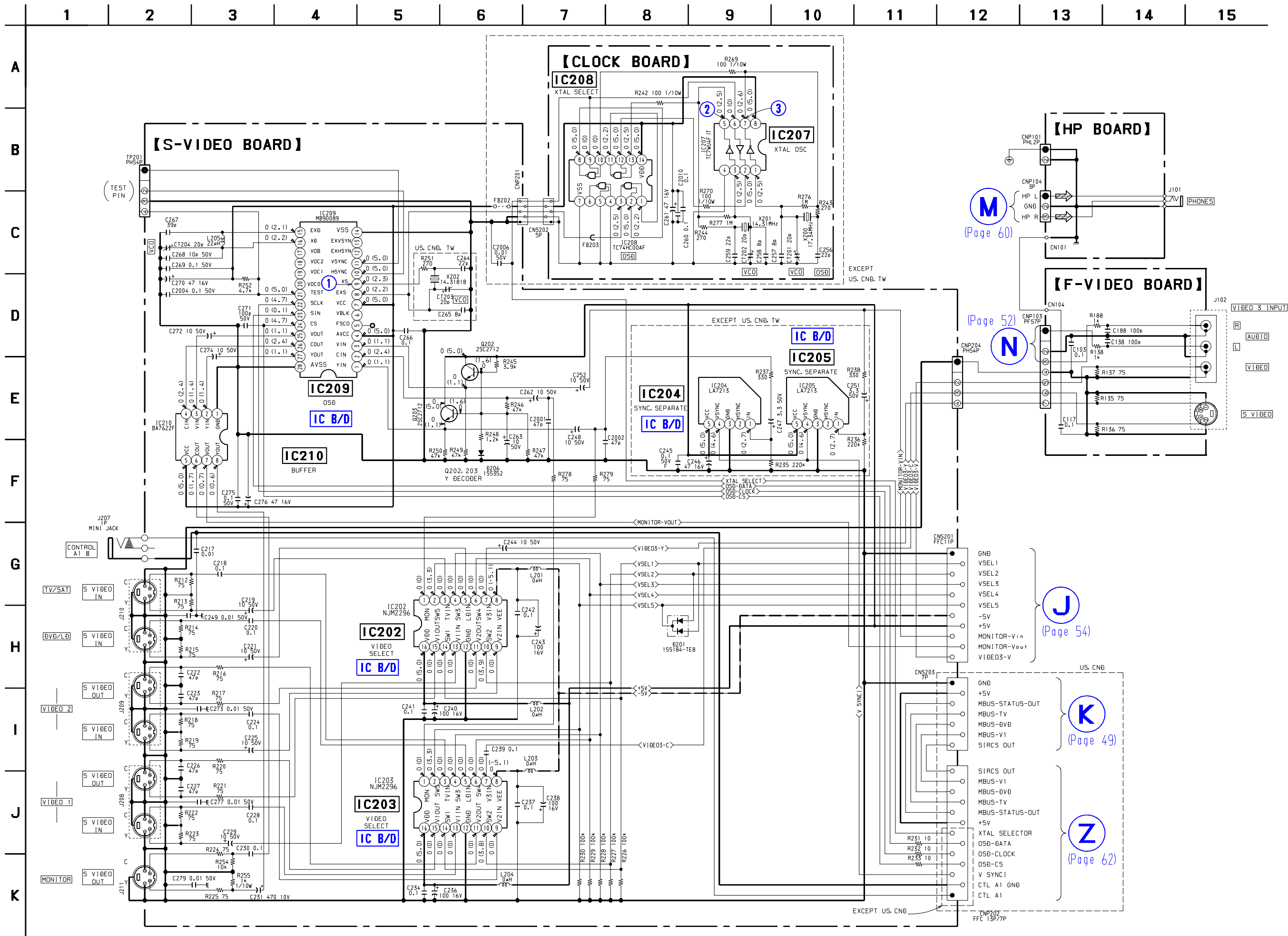


• Semiconductor Location

Ref. No.	Location
D202	C-3
IC201	B-2
IC211	B-3
IC212	B-7
IC213	B-7
IC214	B-5
Q204	B-4
Q205	B-4
Q206	B-4

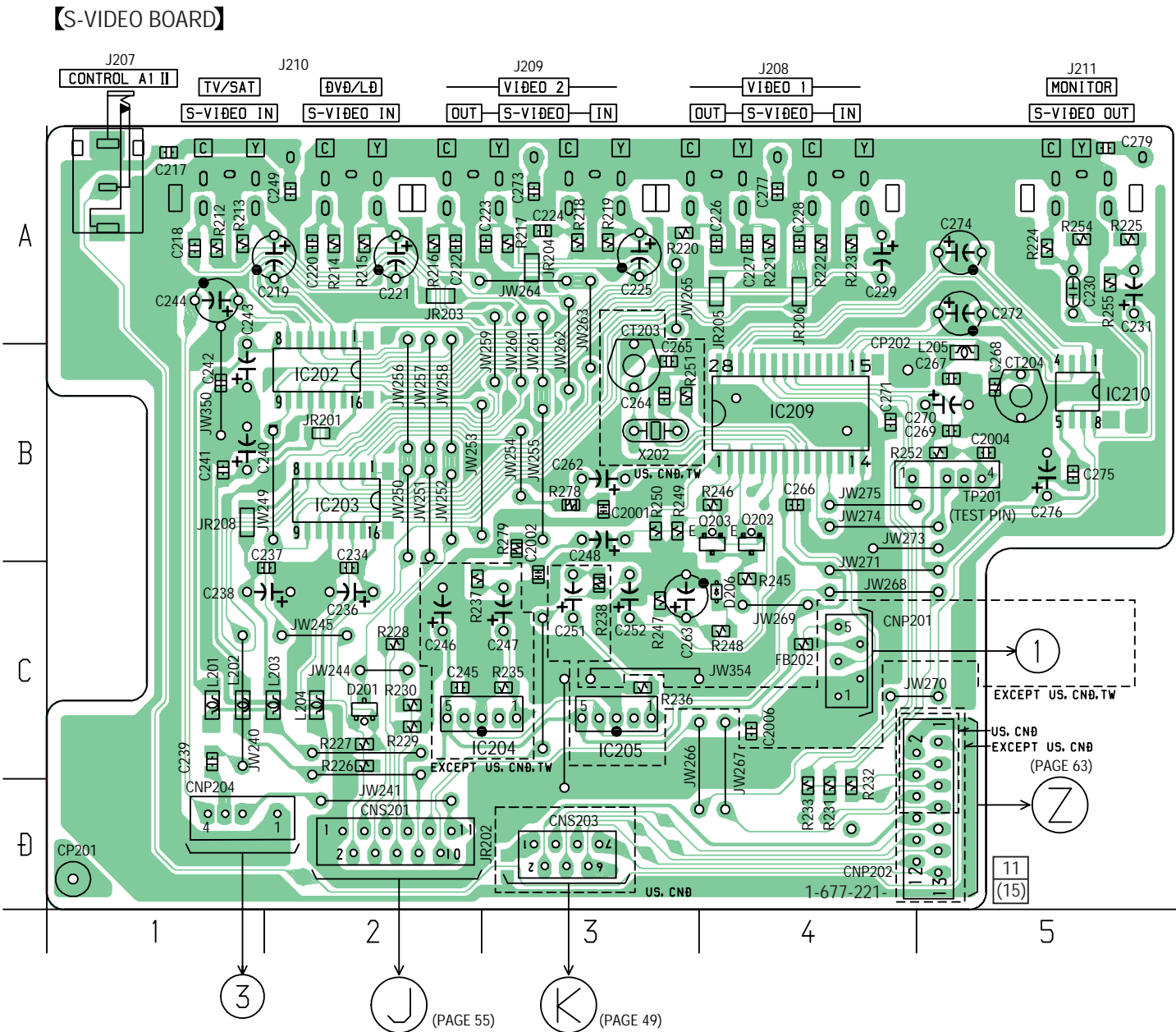
There are few cases that the part isn't mounted in model is printed on diagram.

New Type



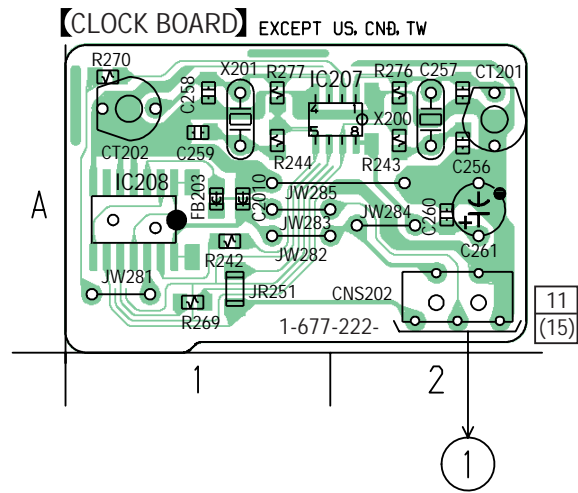
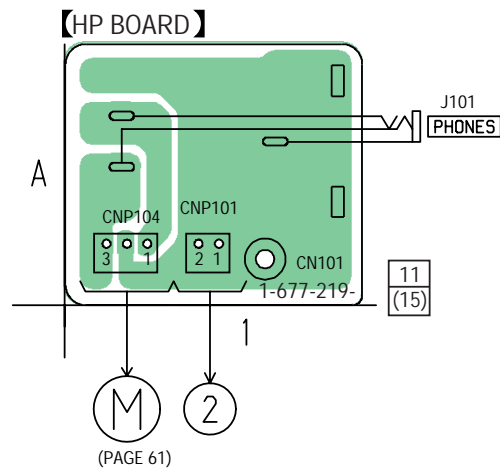
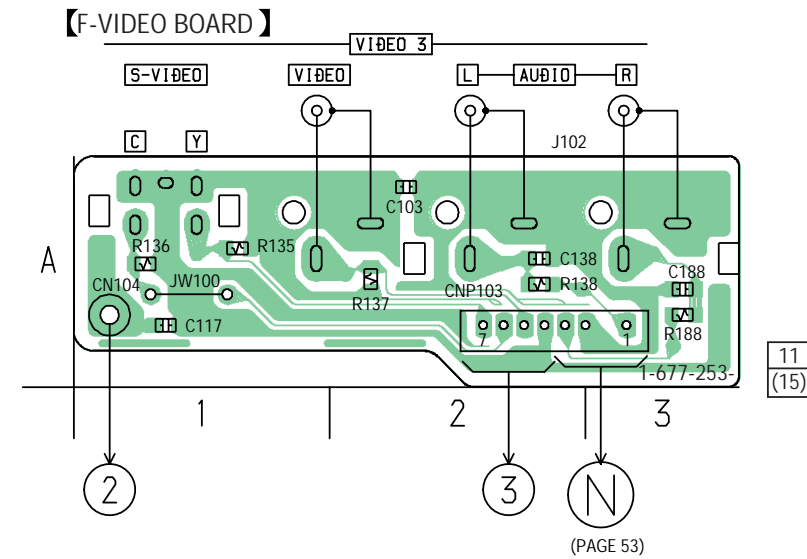
5-46. PRINTED WIRING BOARD — S-VIDEO SECTION —  
• See page 17 for Circuit Boards Location.

New Type



• Semiconductor Location

Ref. No.	Location
D201	C-2
D206	C-4
IC202	B-2
IC203	B-2
IC204	C-2
IC205	C-3
IC209	B-4
IC210	B-5
Q202	B-4
Q203	B-4

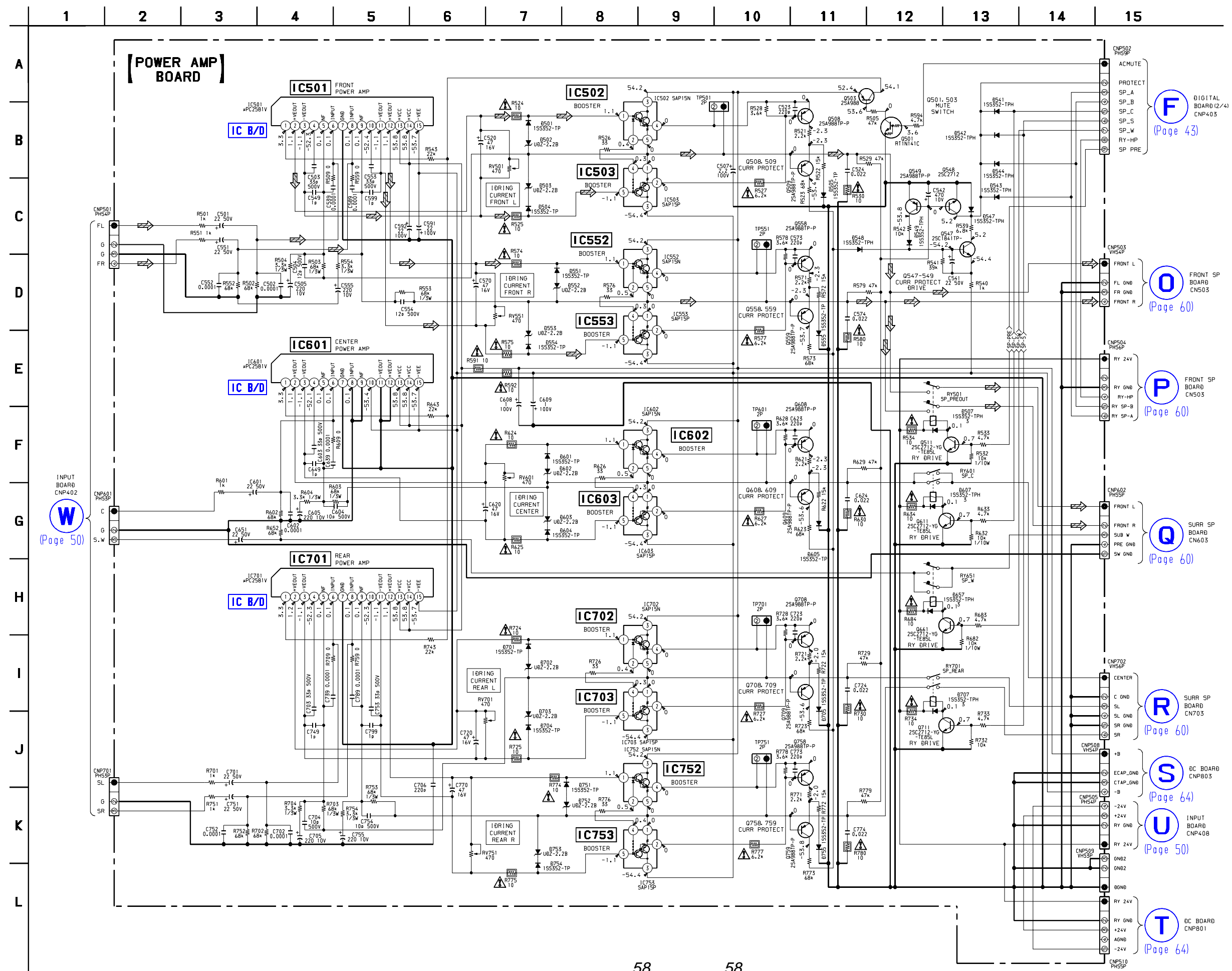


There are few cases that the part isn't mounted in model is printed on diagram.




- See page 66 for IC Block Diagrams.

## New Type



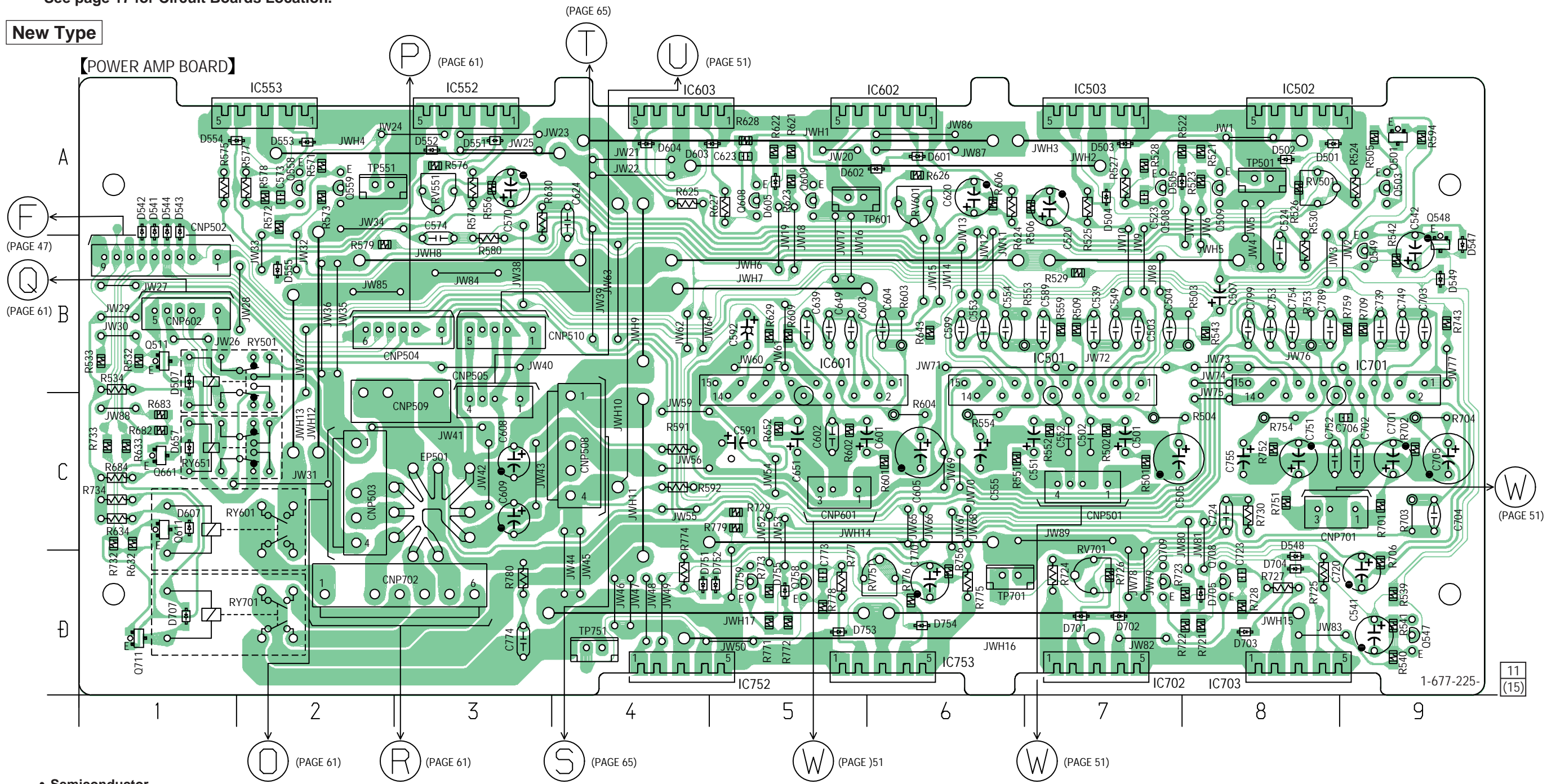
**Note:**  
The components identified by mark  $\triangle$  or dotted line with mark  $\triangle$  are critical for safety.  
Replace only with part number specified.

**Note:**  
Les composants identifiés par une marque  sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le numéro spécifié.

以阴影和  $\Delta$  标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

5-48. PRINTED WIRING BOARD — POWER AMP SECTION —  
• See page 17 for Circuit Boards Location.

New Type



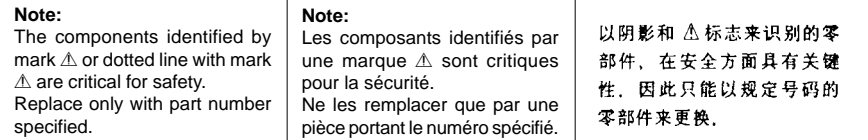
• Semiconductor Location

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D501	A-8	D554	A-2	D752	D-5	IC753	D-6	Q709	D-7
D502	A-8	D555	B-2	D753	D-5	Q501	A-9	Q711	D-1
D503	A-7	D601	A-6	D754	D-6	Q503	A-9	Q758	D-5
D504	A-7	D602	A-6	D755	D-5	Q508	A-7	Q759	D-5
D505	A-8	D603	A-5	IC501	A-7	Q509	A-8		
D507	B-1	D604	A-4	IC502	D-8	Q511	B-1		
D541	A-1	D605	A-5	IC503	A-7	Q547	D-9		
D542	A-1	D607	C-1	IC552	A-3	Q548	B-9		
D543	A-1	D657	C-1	IC553	A-2	Q549	B-9		
D544	A-1	D701	D-7	IC601	B-5	Q558	A-2		
D547	B-9	D702	D-7	IC602	A-6	Q559	A-2		
D548	D-8	D703	D-8	IC603	A-4	Q608	A-5		
D549	B-9	D704	D-8	IC701	B-8	Q609	A-5		
D551	A-3	D705	D-8	IC702	D-7	Q611	C-1		
D552	A-3	D707	D-1	IC703	D-8	Q661	C-1		
D553	A-2	D751	D-5	IC752	D-4	Q708	D-8		

There are few cases that the part isn't mounted in model is printed on diagram.



## New Type

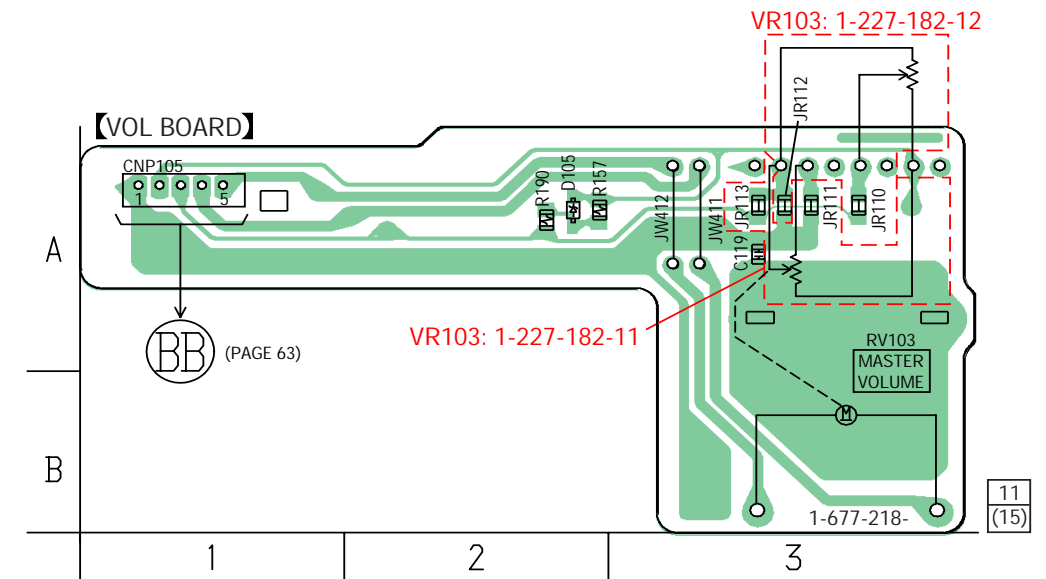
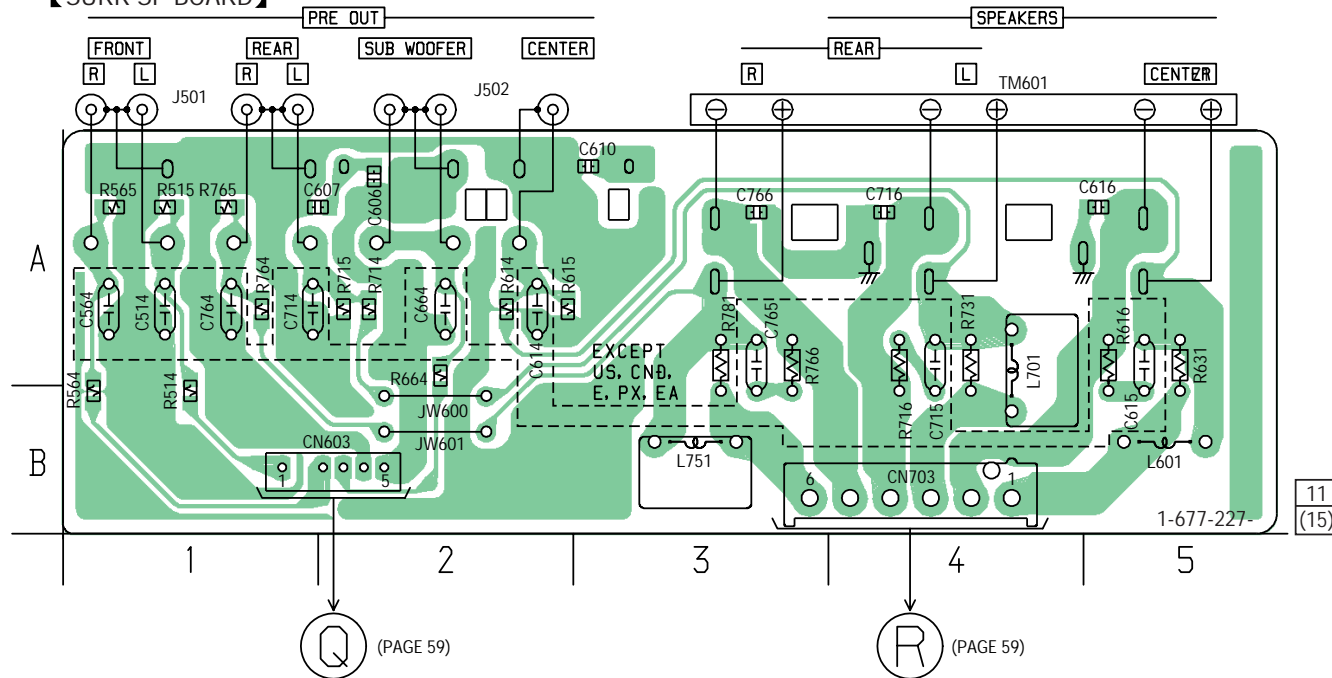


**5-50. PRINTED WIRING BOARD — FRONT SP SECTION —**

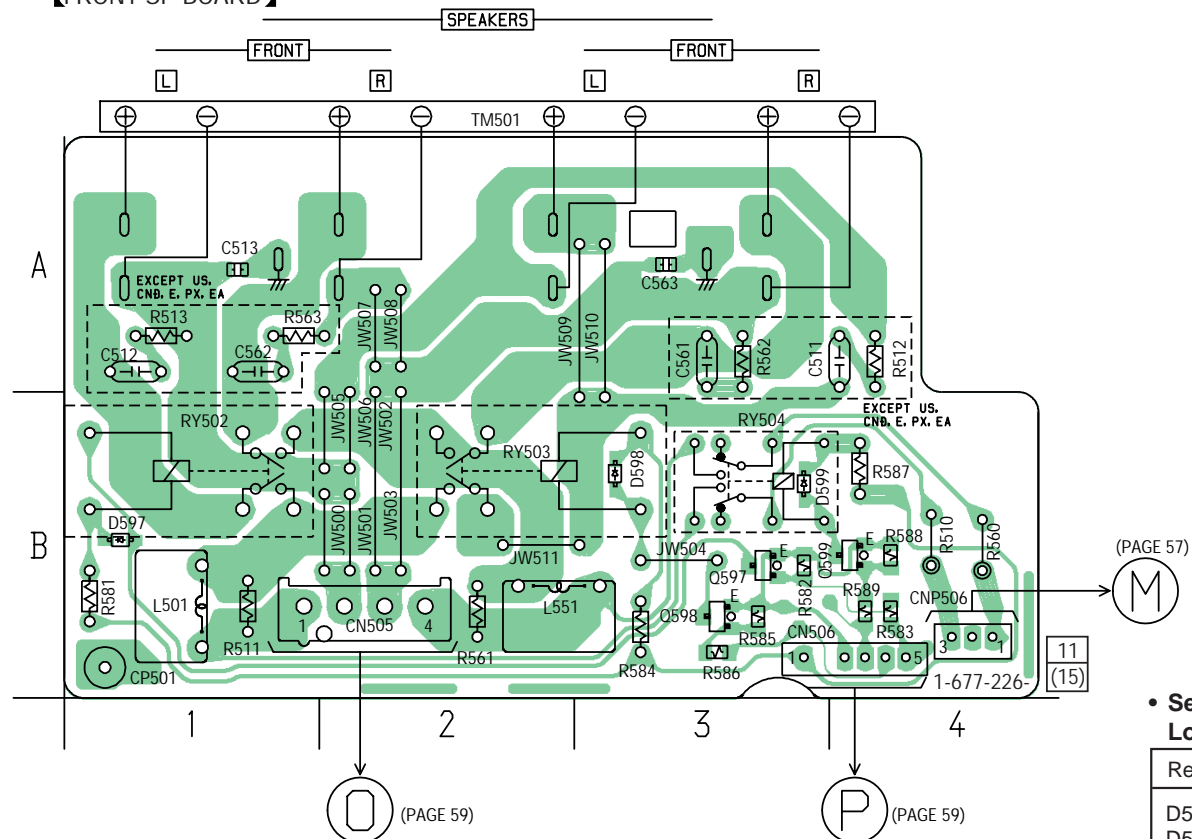
- See page 17 for Circuit Boards Location.

## New Type

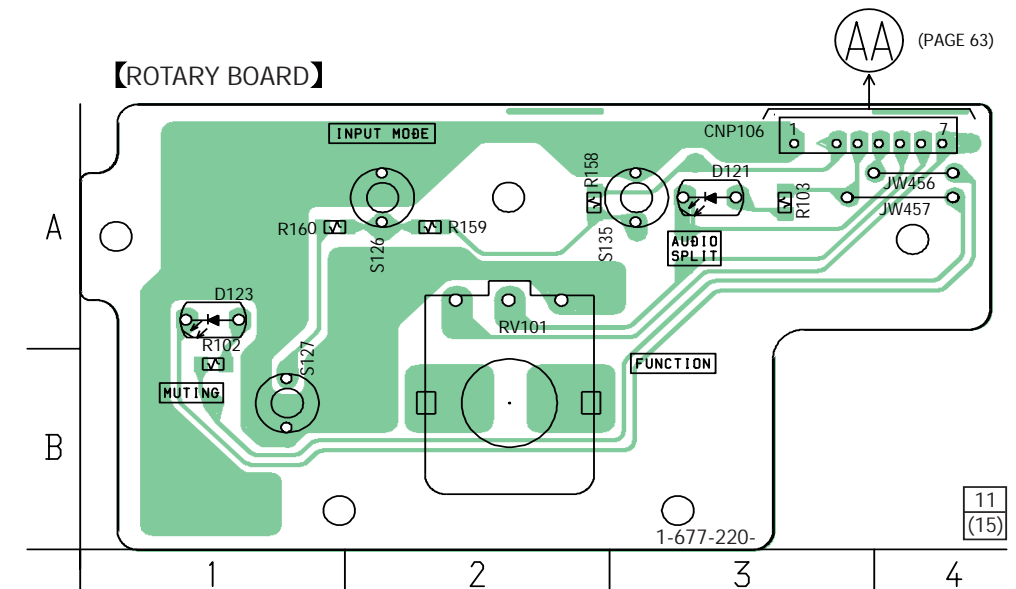
【SURR SP BOARD】



## 【FRONT SP BOARD】



【ROTARY BOARD】



- **Semiconductor Location**

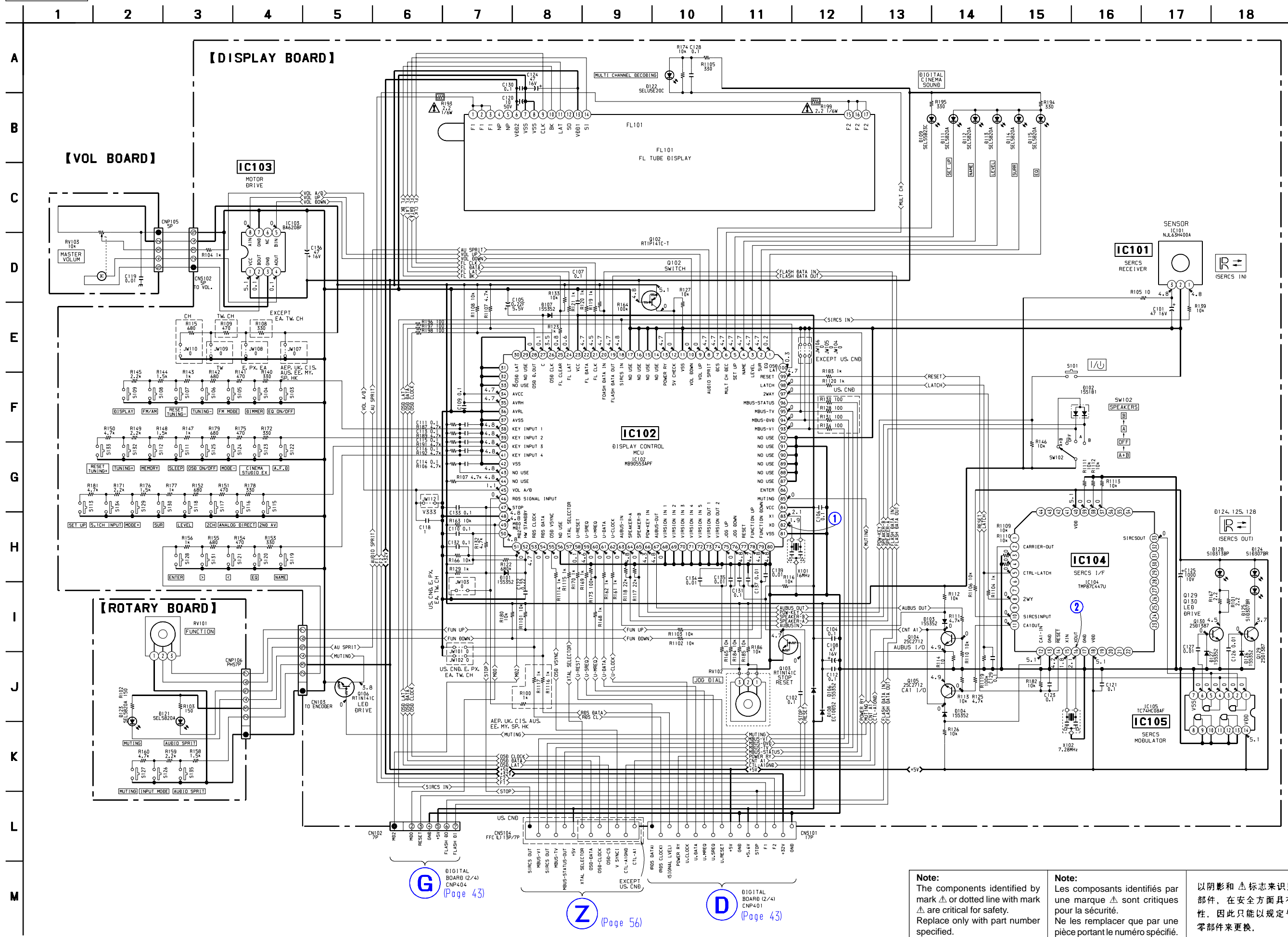
Ref. No.	Location
D597	B-1
D598	B-3
D599	B-3
Q597	B-3
Q598	B-3
Q599	B-4



There are few cases that the part isn't mounted in model is printed on diagram.


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**5-51. SCHEMATIC DIAGRAM — DISPLAY SECTION —** • See page 17 for Waveforms. • See page 61 for VOL and ROARY Printed Wiring Board. • See page 69 for IC Pin Function.

### New Type



**Note:**  
The components identified by mark  or dotted line with mark  are critical for safety.  
Replace only with part number specified.

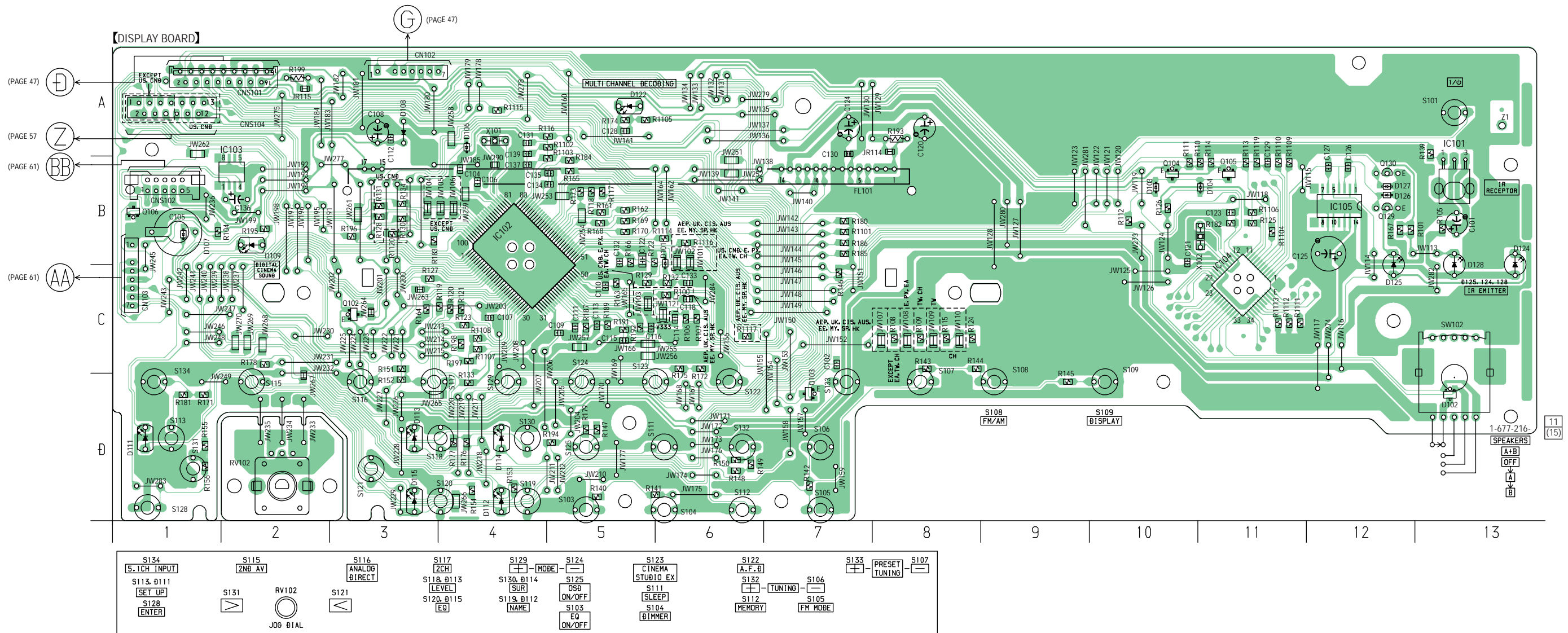
**Note:**  
Les composants identifiés par une marque  sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le numéro spécifié.

以阴影和  $\triangle$  标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。



5-52. PRINTED WIRING BOARD — DISPLAY SECTION —  
• See page 17 for Circuit Boards Location.

New Type

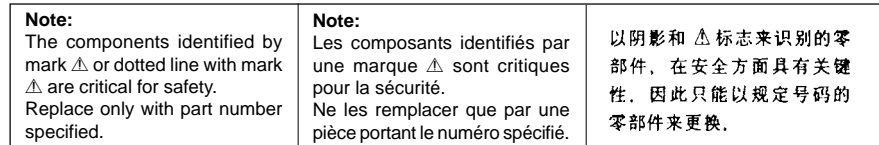


• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D101	C-6	D126	B-12
D102	D-13	D127	B-12
D103	B-10	D128	B-13
D104	B-10	IC101	B-13
D106	A-4	IC102	B-4
D107	B-1	IC103	B-2
D108	A-3	IC104	C-11
D109	B-2	IC105	B-12
D111	D-1	Q102	C-3
D112	D-4	Q103	D-7
D113	D-3	Q104	B-10
D114	D-4	Q105	B-11
D115	D-3	Q106	B-1
D122	A-5	Q129	B-12
D124	B-13	Q130	B-12
D125	B-12		

There are few cases that the part isn't mounted in model is printed on diagram.

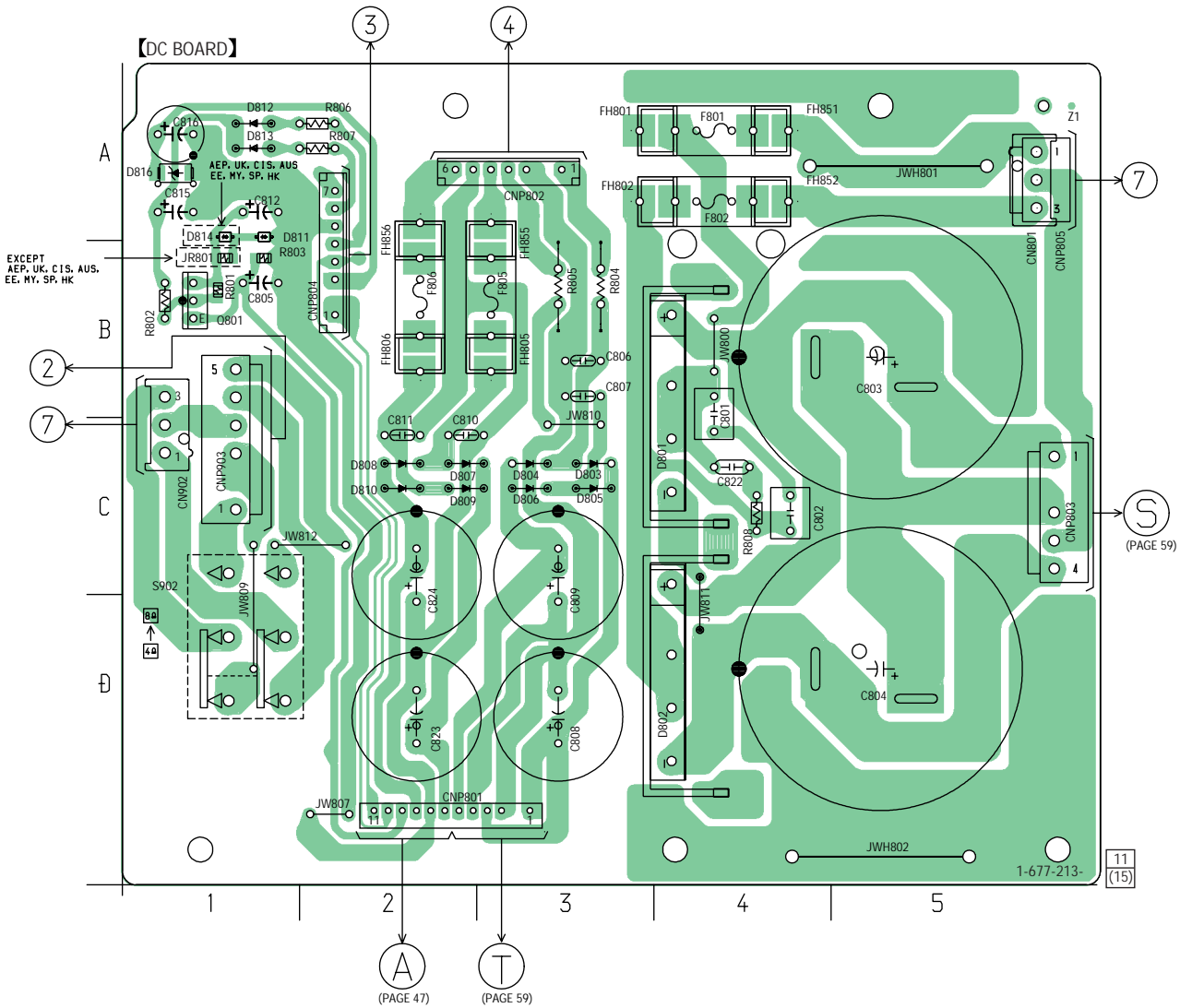
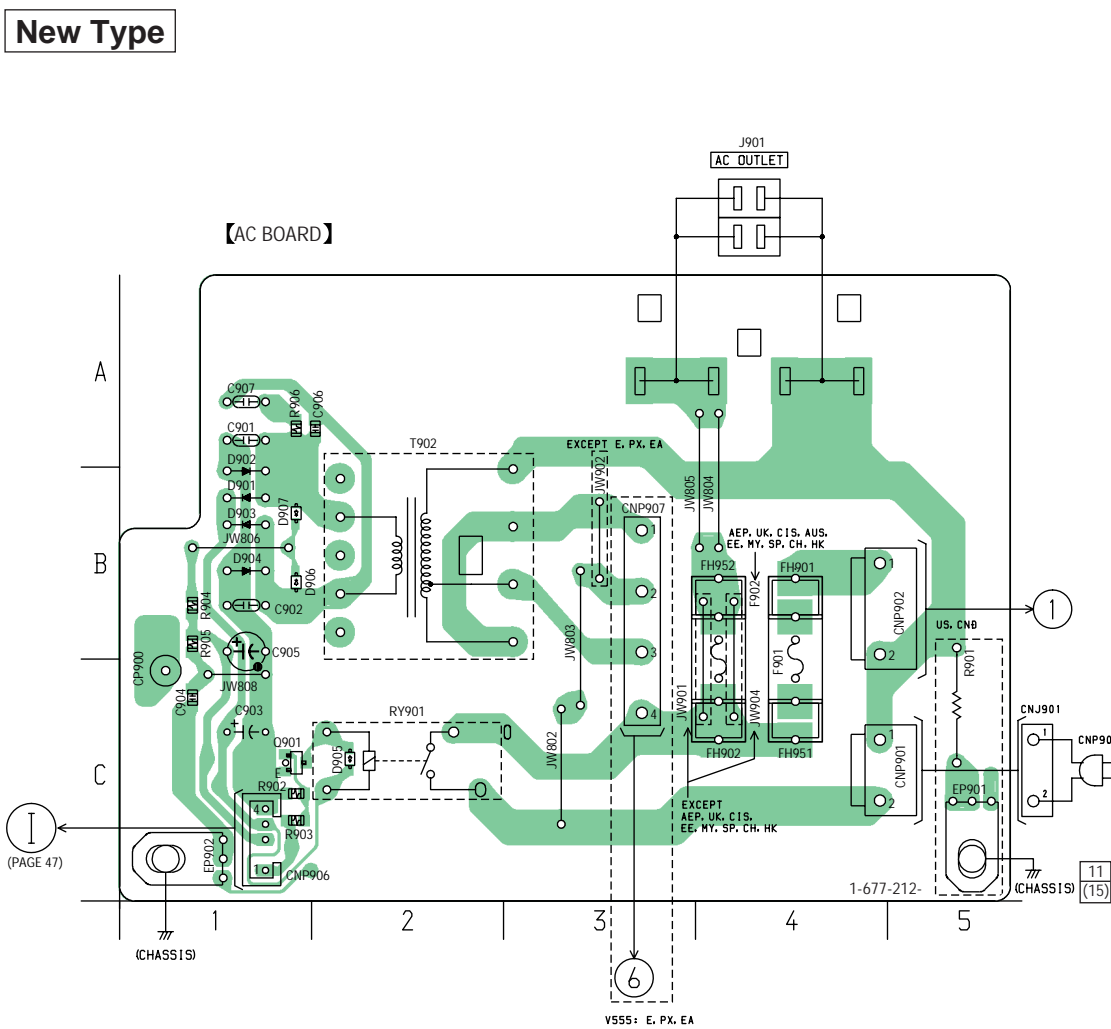
## New Type





5-54. PRINTED WIRING BOARD — DC POWER SECTION —  
• See page 17 for Circuit Boards Location.

New Type



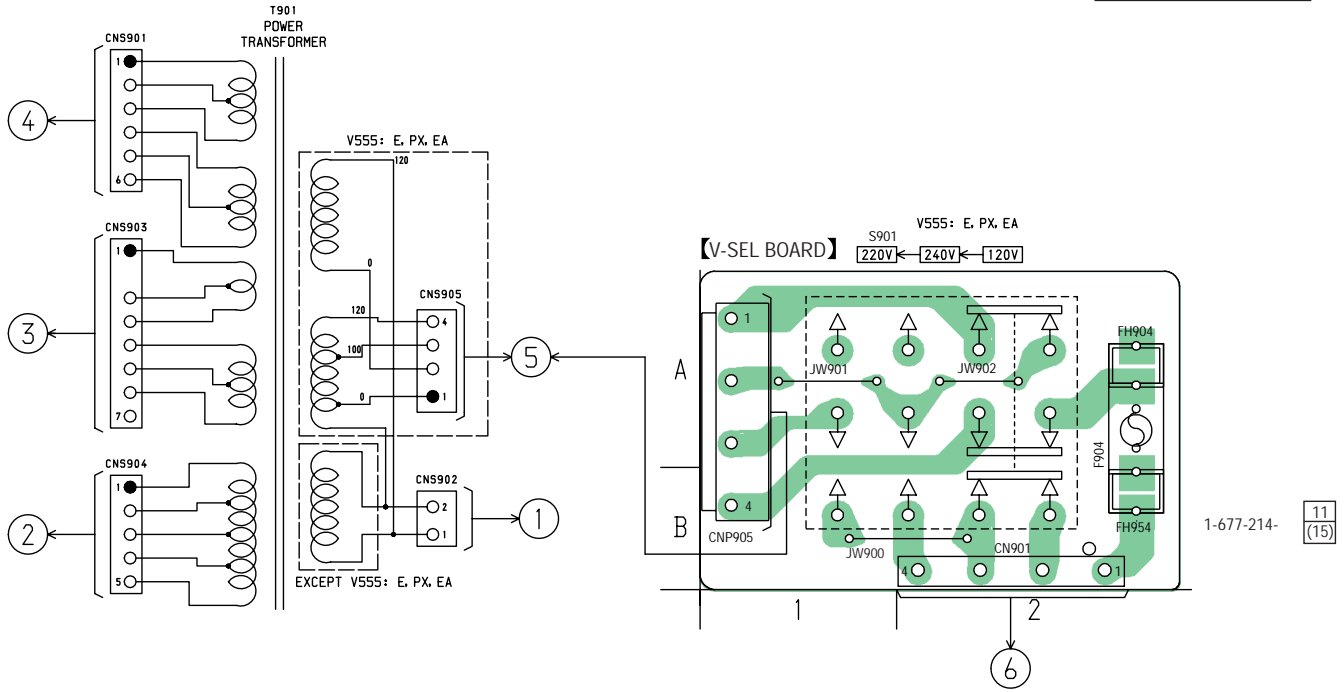
• Semiconductor Location

Ref. No.	Location
D901	B-1
D902	B-1
D903	B-1
D904	B-1
D905	C-2
D906	B-1
D907	B-1
Q901	C-1

• Semiconductor Location

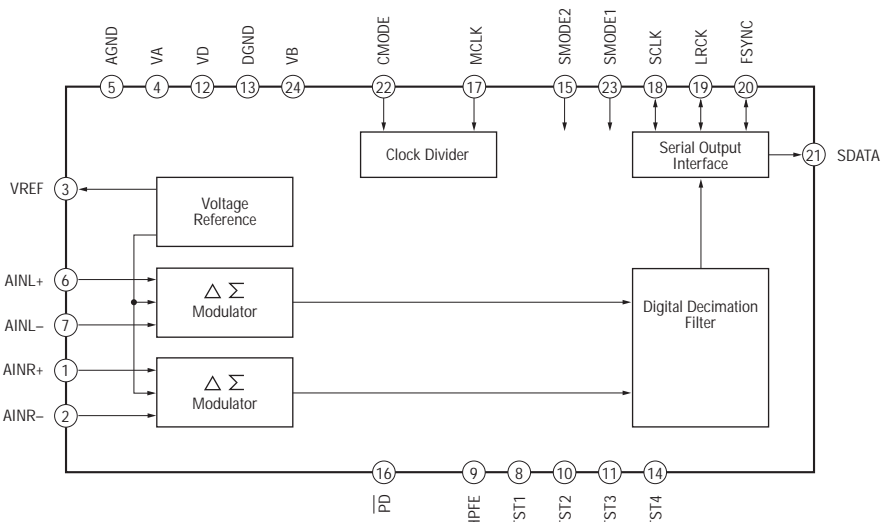
Ref. No.	Location
D801	C-4
D802	D-4
D803	C-3
D804	C-3
D805	C-3
D806	C-3
D807	C-2
D808	C-2
D809	C-2
D810	C-2
D811	A-1
D812	A-1
D813	A-1
D814	A-1
D816	A-1
Q801	B-1

There are few cases that the part isn't mounted in model is printed on diagram.

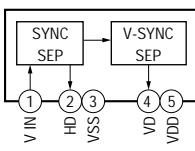


5-29. IC BLOCK DIAGRAMS

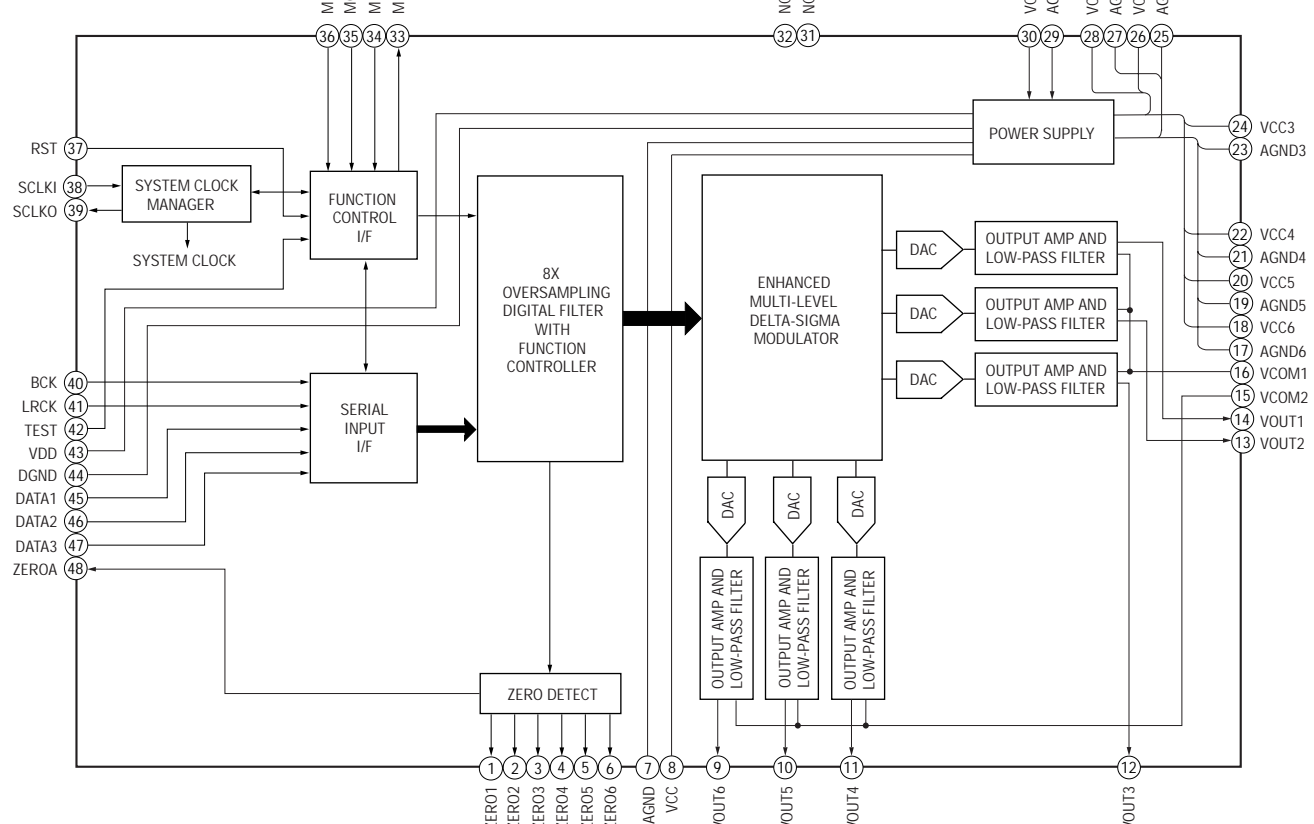
IC1419 AK5352-VF-E2 (DIGITAL BOARD)



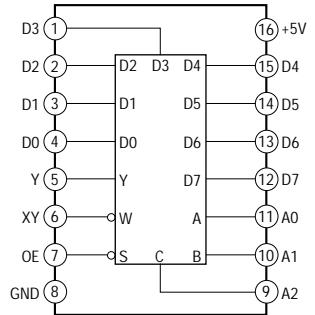
IC204, 205 LA7213 (S-VIDEO BOARD)



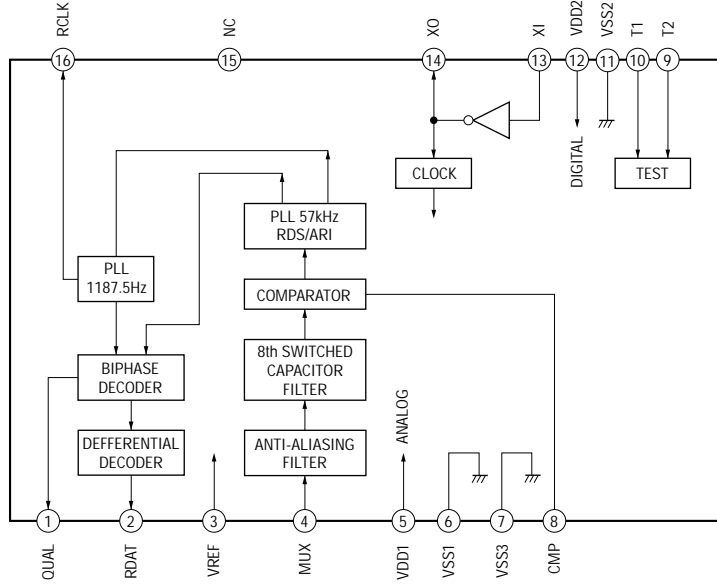
IC1412 PCM1600Y (DIGITAL BOARD)



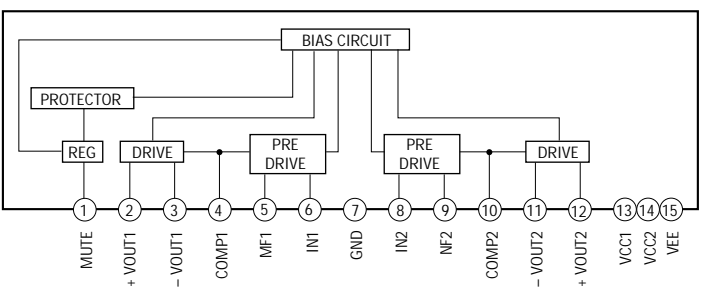
IC1313 TC74HC151AF (DIG-IN/OUT BOARD)



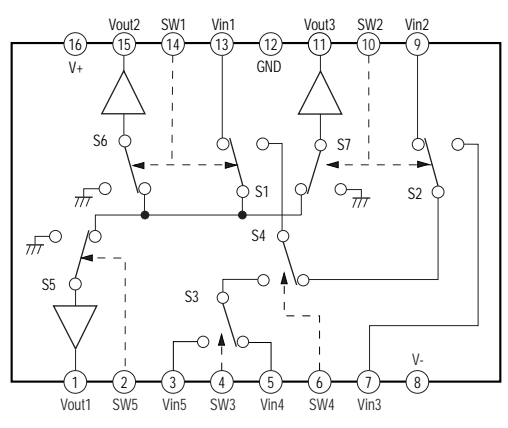
IC1420 BU1924F-E2 (DIGITAL BOARD)



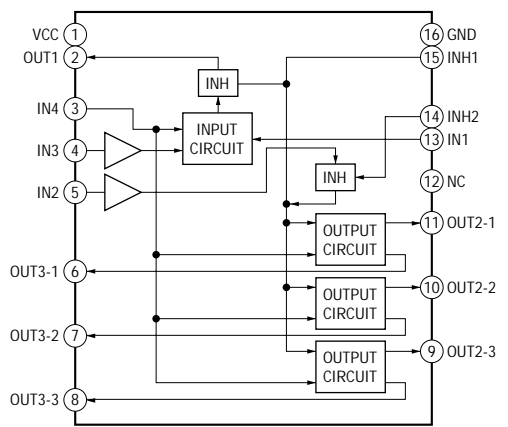
IC501, 601, 701 uPC2581V (POWER AMP BOARD)



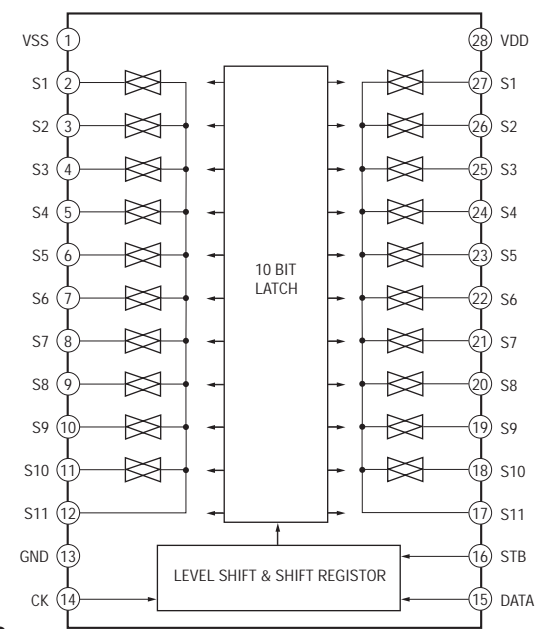
IC201, 211 NJM2296M-TE2 (C-VIDEO BOARD)  
IC202, 203 NJM2296M-TE2 (S-VIDEO BOARD)



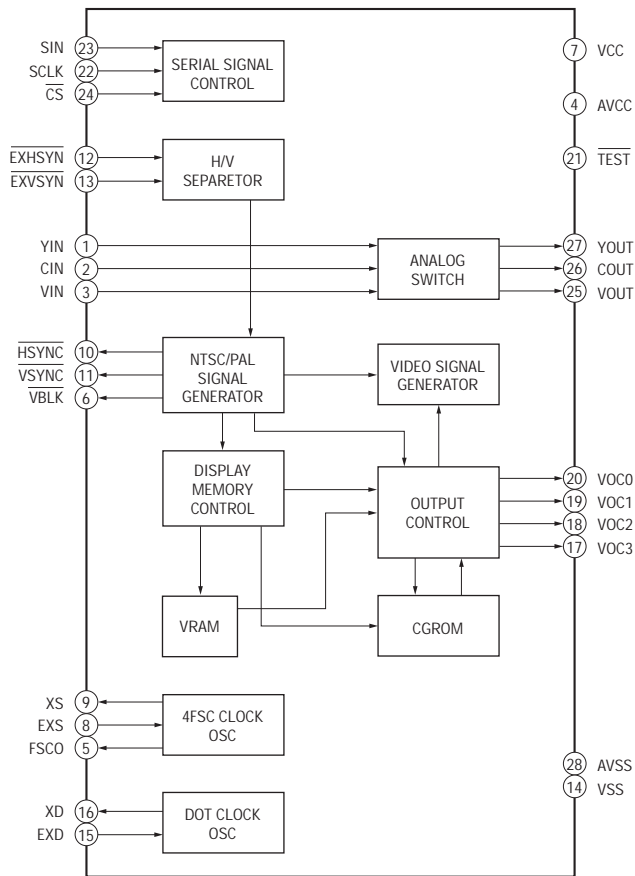
IC200 NJM2145M-TE2 (M-BUS BOARD)



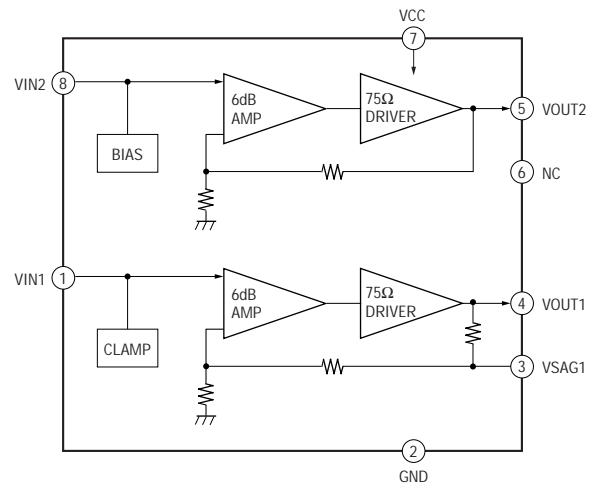
IC303, 306 TC9273F (INPUT BOARD)



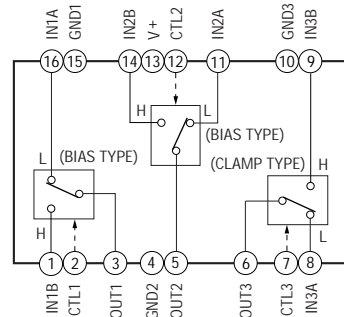
### IC209 MB90089PF-234-ER (S-VIDEO BOARD)



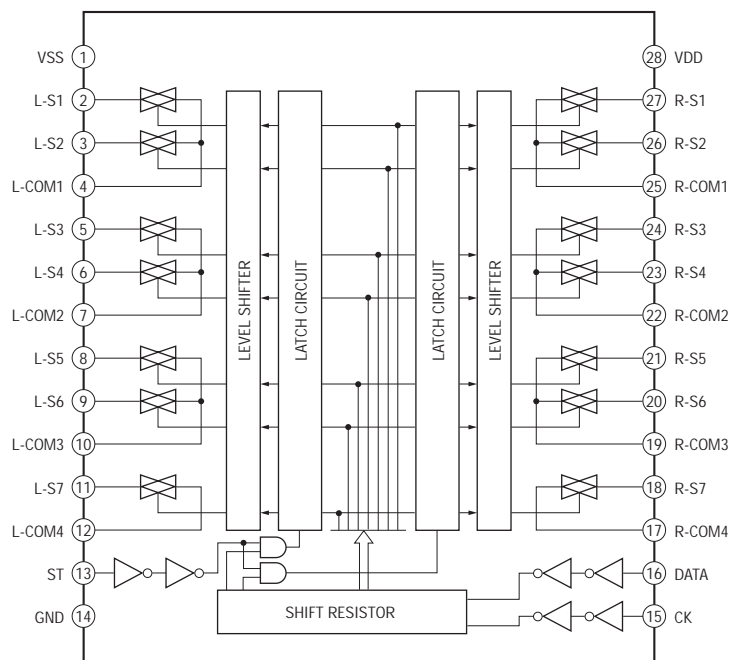
### IC212, 213 NJM2268M-TE1 (C-VIDEO BOARD)



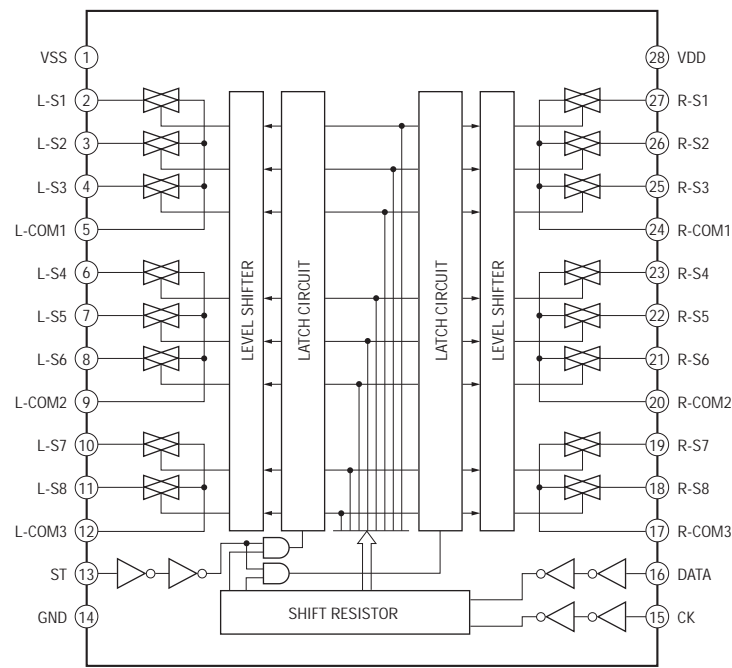
### IC214 NJM2284 (TE2)(C-VIDEO BOARD)



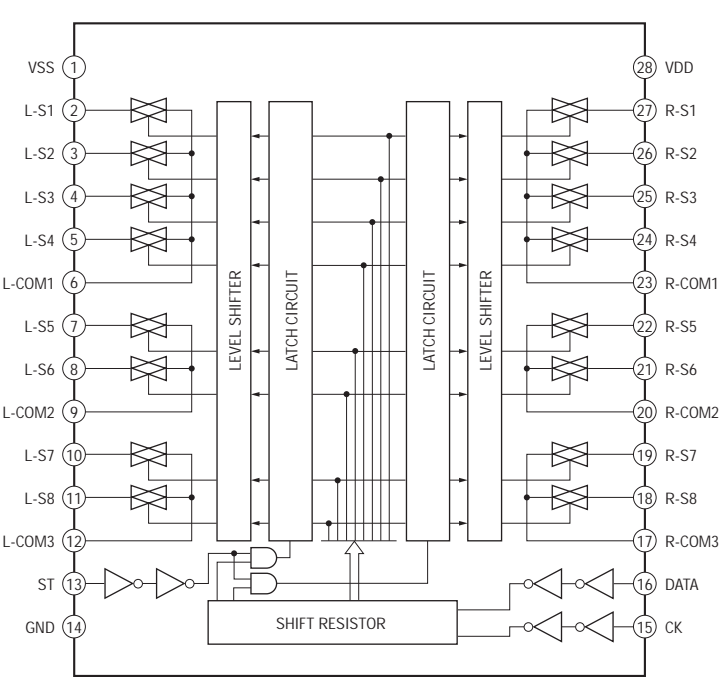
### IC305 TC9162AF (INPUT BOARD)



IC302 TC9163AF (INPUT BOARD)



IC300 TC9164AF (AUDIO 2F BOARD)



## 5-30. IC PIN FUNCTION

### IC102 MB90553ABPF-G-168-BND DISPLAY CONTROL (DISPLAY BOARD)

Pin No.	Pin Name	I/O	Description
1	EQ	O	EQ display data output to LED
2	SUR	O	SUR display data output to LED
3	LEVEL	O	LEVEL display data output to LED
4	NAME	O	NAME display data output to LED
5	SET UP	O	SET UP display data output to LED
6	MULT CH DEC	O	MULTI CHENNEL DECODING display data output to LED
7	DCS	O	DIGITAL CINEMA SOUND display data output to LED
8	AUDIO SPLIT	O	AUDIO SPLIT display data output to LED
9	VOL UP	O	Volume up output
10	VOL DOWN	O	Volume down output
11	VSS	—	Ground (Connected to ground)
12	5V CHECK	I	+5V check input
13	POWER RY	O	Power RY output
14	NO USE	—	Not used (Connected to ground)
15	NO USE	—	Not used (Connected to ground)
16	NO USE	—	Not used (Connected to ground)
17	NO USE	—	Not used (Connected to ground)
18	SIRCS IN	I	SIRCS input
19	FLASH DATA OUT	O	FLASH DATA output
20	FLASH DATA IN	I	FLASH DATA input
21	FL CLK	O	Clock output to fluorescent display tube
22	FL DATA	O	Data output to fluorescent display tube
23	VCC	—	Power supply +5 V
24	FL LATCH	O	Fluorescent latch
25	FL CLEAR	O	Fluorescent clear
26	OSD CLK	O	Clock output to OSD
27	C	—	External power regulator capacitor 0.1 is connected to this terminal
28	OSD DATA OUT	O	Data output to OSD
29	—	—	Not used (Connected to ground)
30	OSD LAT	—	Not used
31	—	—	Not used (Connected to ground)
32	—	—	Not used (Connected to ground)
33	—	—	Not used (Connected to ground)
34	AVCC	—	Analog power supply +5 V
35	AVRH	—	AVRH (Connected to Analog power supply +5 V)
36	AVRL	—	AVRL (Connected to ground)
37	AVSS	—	Ground (Connected to ground)
38	KEY INPUT 1	I	Key input 1
39	KEY INPUT 2	I	Key input 2
40	KEY INPUT 3	I	Key input 3
41	KEY INPUT 4	I	Key input 4
42	VSS	—	Ground (Connected to ground)
43	NO USE	I	Key input 5
44	NO USE	I	Not used (Connected to ground)
45	VOL A/D	I	Volume level input
46	RDS SIGNAL INPUT	I	RDS signal input
47	STOP	I	Stop input
48	—	—	Not used (Connected to ground)
49	MD0	I	MD 0
50	MD1	I	MD 1



Pin No.	Pin Name	I/O	Description
51	MD2	I	MD 2
52	HW STANDBY	I	Hardware STANDBY input
53	RDS CLOCK	I	RDS clock input
54	RDS DATA	I	RDS data input
55	OSD VSYNC	O	OSD V sync signal output
56	NO USE	O	Not used (Connected to ground)
57	XTAL SELECTOR	I	Xtal select signal output
58	U-RESET	O	Reset output
59	U-SREQ	I	Slave request and data input
60	U-MREQ	O	Master request output
61	U-DATA	O	Master data output
62	U-CLOCK	O	Master clock output
63	AUBUS-IN	I	Audio bus input
64	SPEAKER-A	I	Speaker-A select switch input
65	SPEAKER-B	I	Speaker-B select switch input
66	POW-KEY IN	—	Power KEY input
67	AUBUS-OUT	O	Audio bus output
68	VIRSION IN1	I	Not used (Connected to ground)
69	VIRSION IN2	I	Not used (Connected to ground)
70	VIRSION IN3	I	Not used (Connected to ground)
71	VIRSION IN4	I	Not used (Connected to ground)
72	VIRSION IN5	I	Not used (Connected to ground)
73	VIRSION OUT1	O	Not used (Connected to ground)
74	VIRSION OUT2	O	Not used (Connected to ground)
75	JOG UP	I	Jog dial up signal input
76	JOG DOWN	I	Jog dial down signal input
77	RESET	I	Reset input
78	FUNCTION UP	—	FUNCTION dial up signal input
79	FUNCTION DOWN	—	FUNCTION dial down signal input
80	—	—	Not used (Connected to ground)
81	VSS	—	Not used (Connected to ground)
82	XO	—	External crystal is connected to this terminal
83	XI	—	External crystal is connected to this terminal
84	VCC	—	Power supply +5 V
85	MUTING	O	Muting signal output
86	ENTER	—	Not used (no connect)
87	NO USE	O	Not used (Connected to ground)
88	NO USE	O	Not used (Connected to ground)
89	NO USE	O	Not used (Connected to ground)
90	NO USE	O	Not used (Connected to ground)
91	NO USE	O	Not used (Connected to ground)
92	NO USE	O	Not used (Connected to ground)
93	MBUS-V1	I	V1 input form MBUS (Connected to ground)
94	MBUS-DVD	I	DVD input form MBUS (Connected to ground)
95	MBUS-TV	I	TV input form MBUS (Connected to ground)
96	MBUS-STATUS	I	STATUS input form MBUS (Connected to ground)
97	2WAY	—	2WAY signal output
98	LATCH	O	CTRL latch signal output
99	RESET	O	OSD reset signal output
100	OSD-LAT	O	OSD chip select signal output

**IC1201 MB90574PFV-G-295-BND SYSTEM CONTROL (DIGITAL BOARD)**

Pin No.	Pin Name	I/O	Description
1	SCLK DSP1	O	To CXD9511AQ clock
2	DSP1-DATA IN	O	To CXD9511AQ data input
3	DSP1-DATA OUT	I	To CXD9511AQ data output
4	DSP1-CSA	O	To CXD9511AQ chip select
5	DSP1-RESET	O	To CXD9511AQ reset
6	DSP1-CSB	I	To CXD9511AQ chip select
7	NO USE	—	Not used (Connected to ground)
8	VCC	I	Power supply +5 V
9	S1N0	I	UART input. Used for rewriting flash memory
10	SOT0	O	UART output. Used for rewriting flash memory
11	NO USE	—	Not used (Connected to ground)
12	NO USE	—	Not used (Connected to ground)
13	XHDWR1	O	To CXD2712 (IC1304) HCIF data write
14	XHDRD1	O	To CXD2712 (IC1304) HCIF data read
15	TST	I	Not used (connected to ground)
16	XHDCS1	O	To CXD2712 (IC1304) HCIF chip select
17	HD0	I/O	To CXD2712 HCIF data input/output
18	HD1	I/O	To CXD2712 HCIF data input/output
19	HD2	I/O	To CXD2712 HCIF data input/output
20	HD3	I/O	To CXD2712 HCIF data input/output
21	HD4	I/O	To CXD2712 HCIF data input/output
22	HD5	I/O	To CXD2712 HCIF data input/output
23	HD6	I/O	To CXD2712 HCIF data input/output
24	HD7	O	To CXD2712 HD 7
25	HA0	O	To CXD2712 HCIF address
26	XRST1	O	To CXD2712 (IC1304) reset
27	HRDY1	I	To CXD2712 HCIF (IC1304) ready
28	XHDWR2	O	To CXD2712 HCIF (IC1305) data write
29	XHDRD2	O	To CXD2712 HCIF (IC1305) data read
30	XHDCS2	O	To CXD2712 HCIF (IC1305) chip select
31	XRST2	O	To CXD2712 (IC1305) reset
32	HRDY2	I	To CXD2712 (IC1305) ready
33	VSS	—	Ground
34	C	—	External power regulator capacitor 0.1 u is connected to this terminal
35	A/DINT	O	To AK5352 A/D reset
36	D/AINT	O	To PCM1600 D/A reset
37	D/A LAT	O	To PCM1600 D/A latch
38	DVCC	—	Digital power supply +5 V
39	DVSS	—	Digital ground
40	D/A CLK	O	To PCM1600 D/A clock
41	D/A DATA IN	I	To PCM1600 D/A data in
42	AVCC	—	Analog power supply +5 V
43	AVR+	—	Power supply +5 V
44	AVR-	—	Ground
45	AVSS	—	Ground
46	D/A DATA OUT	O	To PCM1600 D/A data out
47	STEREO	I	Stereo input
48	AUTOSTOP	I	Auto stop input
49	TUNER MUTE	O	To tuner mute
50	DATA IN	I	PLL data input

Pin No.	Pin Name	I/O	Description
51	S.CLK	O	To tuner clock
52	S.DATA	O	To tuner data
53	LC.LAT	O	To tuner latch
54	VCC	—	Power supply +5 V
55	TC.LAT	O	To TC9164AF latch
56	V.POWER OFF	O	Video power off output
57	GAIN FRONT	O	Front gain switch output
58	GAIN CENTER	O	Center gain switch output
59	GAIN SW	O	SUB WOOFER gain switch output
60	GAIN REAR	O	Rear gain switch output
61	RY-POWER	O	Power relay
62	SLV/REQ	O	Display MCU slave data/request
63	VSS	—	Ground
64	M/REQ	I	Display MCU slave master request
65	/DATA	I	Display MCU data
66	DISP/CLK	I	Display MCU clock
67	STOP	I	AC power check
68	VIDEO (SW2-1)	O	To NJM2296 video select switch 2-1
69	VIDEO (SW2-2)	O	To NJM2296 video select switch 2-2
70	VIDEO (SW2-3)	O	To NJM2296 video select switch 2-3
71	VIDEO (SW1)	O	To NJM2296 video select switch 1
72	VIDEO (SW2)	O	To NJM2296 video select switch 2
73	X1A	—	Not used (Not connected, open)
74	X0A	—	Not used (Not connected, open)
75	VIDEO (SW3)	O	To NJM2296 video select switch 3
76	VIDEO (SW4)	O	To NJM2296 video select switch 4
77	AC MUTING	O	Power amp uPC2581 on/off
78	PROTEC	I	Protector in
79	RY-FRONT/A	O	Front speaker A relay
80	RY-FRONT/B	O	Front speaker B relay
81	RY-CENTER	O	Center speaker relay
82	RY-REAR	O	Rear speaker relay
83	RY-WOOFER	O	Sub woofer relay
84	RY-HP	O	Headphones relay
85	RY-PRE	O	Pre amp out
86	HSTX	—	Hardware standby (Connected to power supply +5 V)
87	MD2	O	MD 2 (Display MCU)
88	MD1	—	MD 1 (Connected to power supply +5 V)
89	MD0	O	MD 0 (Display MCU)
90	RESET	I	Display MCU reset
91	VSS	—	Ground (Connected to ground)
92	XO	—	External ceramic filter 4 MHz is connected to this terminal
93	XI	—	External ceramic filter 4 MHz is connected to this terminal
94	VCC	—	Power supply +5 V
95	PO0	—	Flash memory rewrite (Connected to ground)
96	PO1	—	Flash memory rewrite (Connected to ground)
97	VIDEO (SW2-4)	O	To NJM2296 video select switch 2-4
98	NO USE	—	Not used (Connected to ground)
99	SURRMUTEING	O	Surround muting
100	LAT	O	EVR latch

Pin No.	Pin Name	I/O	Description
101	DATA	O	EVR data
102	CLK	O	EVR clock
103	RF AC3 NO/YES	I	RF AC3 no/yes input
104	D.POWER OFF	O	DIGITAL POWER OFF output
105	ANALOG/DIGITAL	O	Analog/digital signal output
106	RF ON/OFF	O	RF input signal output
107	DIG-INC	O	Digital input select C (TC74HC151)
108	DIG-INB	O	Digital input select B (TC74HC151)
109	DIG-INA	O	Digital input select A (TC74HC151)
110	XMODE	O	DIR reset
111	LC89055W CLOCK	O	To LC89055W clock
112	LC89055W LAT	O	To LC89055W latch
113	LC89055W DATA	O	To LC89055W data
114	LC89055W CBIT	I	To LC89055W C bit
115	ERROR	I	To LC89055W error out
116	XSTATE	I	To Xtal status flag
117	ZERODATA	I	To LC89055W zero data
118	RF ERROR	I	RF AC 3 demodulator error or signal
119	VSS	—	Ground
120	RF RESET	O	RF AC 3 demodulator reset



**IC1304, 1305 CXD2712R AUDIO DSP MEMORY CONTROL (DIGITAL BOARD)**

Pin No.	Pin Name	I/O	Description
1	VSS3	—	Ground terminal
2 to 5	SOA to SOD	O	Serial data output to the A/D, D/A converter
6, 7	ECJ0, ECJ1	I	Conditional jump input terminal
8	NC	O	Not used (fixed at “L”)
9	XHDWR	I	Write data input from the system controller (IC1201)
10	XHDRD	I	Read data input terminal
11	VSS4	—	Ground terminal
12	VDD2	—	Power supply terminal (+3.3V)
13	HRDY	O	Ready signal output to the system controller (IC1201)
14	XHDCS	I	Chip select signal input from the system controller (IC1201)
15	HA0	I	Address signal input from the system controller (IC1201)
16 to 20	HD0 to HD4	I/O	Two-way data bus with the system controller (IC1201)
21	VSS5	—	Ground terminal
22	VDD3	—	Power supply terminal (+3.3V)
23 to 25	HD5 to HD7	I/O	Two-way data bus with the system controller (IC1201)
26	XRST	I	Reset signal input from the system controller (IC1201)
27 to 30	FGP0 to FGP3	I/O	Data output terminal for the test
31	VSS6	—	Ground terminal
32 to 40	ED0 to ED8	I/O	Not used (No connection)
41	VSS7	—	Ground terminal
42	VDD4	—	Power supply terminal (+3.3V)
43 to 49	ED9 to ED15	I/O	Not used (No connection)
50	TSTD	I	Not used (Connected to ground)
51	VSS8	—	Ground terminal
52	VDD5	—	Power supply terminal (+3.3V)
53 to 60	ED16 to ED23	I/O	Two-way data bus with the S-RAM
61	VSS9	—	Ground terminal
62 to 69	ED24 to ED31	I/O	Two-way data bus with the S-RAM
70	XOE	O	Output enable signal output to the S-RAM
71	VSS10	—	Ground terminal
72	VDD6	—	Power supply terminal (+3.3V)
73	CAS	O	External RAM column address strobe signal output terminal (Not used)
74	XWE	O	External RAM write enable
75	RAS	O	External RAM row address strobe signal output terminal (Not used)
76 to 80	EA0 to EA4	I/O	Address signal output to the S-RAM or test data input from the S-RAM
81	VSS11	—	Ground terminal
82	VDD7	—	Power supply terminal (+3.3V)
83 to 89	EA to EA11	I/O	Address signal output to the S-RAM or test data input from the S-RAM
90	EA12	O	Address signal output to the S-RAM
91	VSS0	—	Ground terminal
92 to 95	EA13 to EA16	O	Address signal output to the S-RAM
96	TSTA	I	Test data input terminal
97	PLDIVF	I	PLL input frequency select terminal
98	PLDIVB	O	PLL input frequency select terminal
99	CLKI	I	Master clock signal input terminal (Connecting Xtal)
100	CLKO	O	Master clock signal output terminal (Connecting Xtal)

Pin No.	Pin Name	I/O	Description
101	VSS1	—	Ground terminal
102	VDD0	—	Power supply terminal (+3.3V)
103	AVSS	—	Ground terminal
104	AVDD	—	Power supply terminal (+3.3V)
105	PLLCK	I/O	PLL output/test clock signal input terminal
106	XPLEN	I	PLL cell oscillation enable signal input terminal
107	TST	I	Test data input terminal
108	LRCT	I	Frequency counter input terminal
109	LROUT	O	Clock driver signal output terminal
110	BKOUT	O	Clock driver signal output terminal
111	VSS2	—	Ground terminal
112	VDD1	—	Power supply terminal (+3.3V)
113	BCK0	I	BCK input
114	BCK1	I	BCK input
115	LRCK0	I	LRCK input
116	LRCK1	I	LRCK input
117 to 120	SIA to SID	—	Serial data input

## SECTION 6 EXPLODED VIEWS

### NOTE:

- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Color Indication of Appearance Parts Example:  
KNOB, BALANCE (WHITE) . . . . (RED)

↑                      ↑  
Parts color    Cabinets color

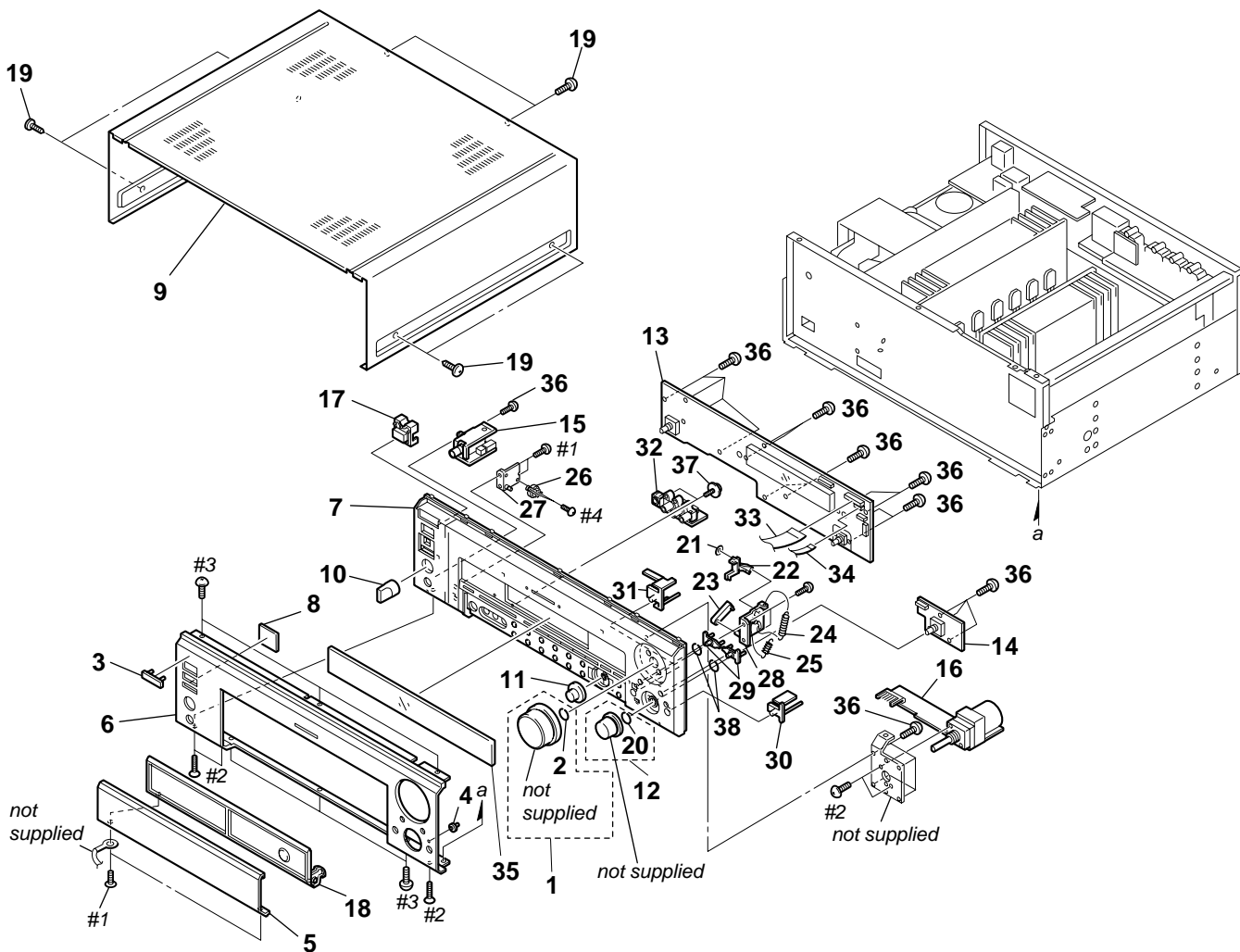
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation  
CND : Canadian model  
AUS : Australian model  
CH : Chinese model  
EE : East European model  
EA : Saudi Arabia model  
SP : Singapore model  
TW : Taiwan model  
MY : Malaysia model  
HK : Hong Kong model

The components identified by mark  $\triangle$  or dotted line with mark  $\triangle$  are critical for safety.  
Replace only with part number specified.

Les composants identifiés par une marque  $\triangle$  sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le numéro spécifié.

以阴影和  $\triangle$  标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

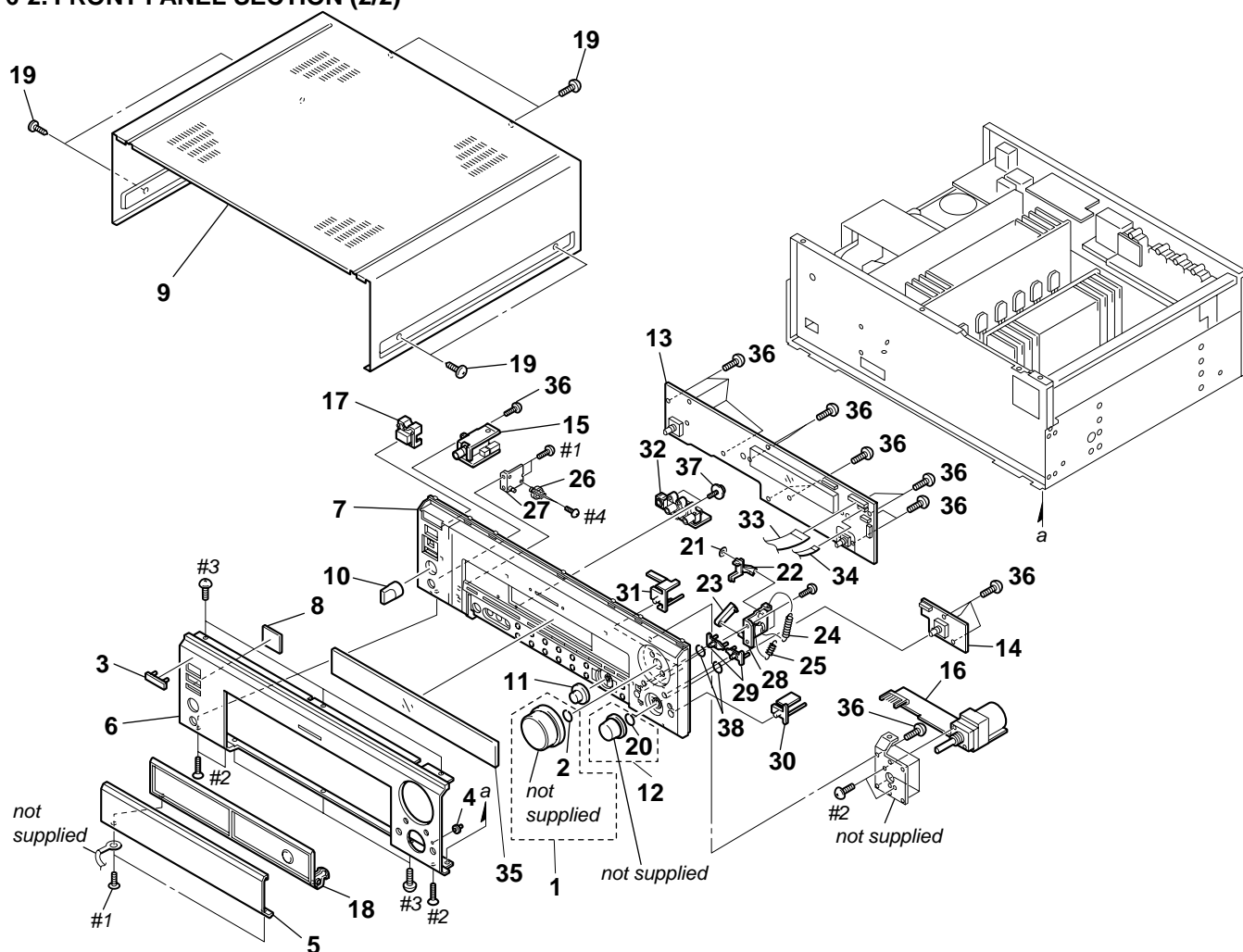
### 6-1. FRONT PANEL SECTION (1/2)



Ref. No.	Part No.	Description	Remark
1	X-4951-908-1	KNOB(VOL) ASSY (GOLD)	
1	X-4953-180-1	KNOB(V54) ASSY (BLACK)	
2	3-350-426-01	SPRING	
3	4-942-568-41	EMBLEM (NO.5), SONY (BLACK)	
* 4	X-4950-462-1	LENS ASSY, LED	
5	4-228-814-01	PANEL(DOOR)(BLACK)(V555:US,CND,E,PX,EA)	
5	4-228-814-11	PANEL(DOOR)(V444)	
5	4-228-814-21	PANEL(DOOR)(V333)	
5	4-228-814-31	PANEL(DOOR)(BLACK)(V555:AEP,UK,CIS,EE,AUS)	
5	4-228-814-41	PANEL(DOOR)(GOLD)(V555:AEP,UK,CIS,AUS,EE,MY,SP,HK)	
5	4-228-814-51	PANEL(DOOR)(GOLD)(V555)(CH,TW)	

Ref. No.	Part No.	Description	Remark
6	4-228-813-01	PANEL(E5), FRONT (BLACK)(V555:US,CND)	
6	4-228-813-11	PANEL(E5), FRONT (BLACK)(V444)	
6	4-228-813-21	PANEL(E5), FRONT (BLACK)(V333)	
6	4-228-813-31	PANEL(E5), FRONT (BLACK)(V555:AEP,UK,CIS,EE,AUS)	
6	4-228-813-41	PANEL(E5),FRONT (GOLD)(V555:AEP,UK,CIS,AUS,EE,MY,SP,HK)	
6	4-228-813-51	PANEL(E5), FRONT (BLACK)(V555:E)	
6	4-228-813-61	PANEL(E5), FRONT (GOLD)(V555:CH,TW)	
7	A-4412-256-A	BASE(B) ASSY, PANEL (BLACK) (V444/V555:US,CND,E,PX,EA)	
7	A-4412-261-A	BASE(N) ASSY,PANEL (GOLD) (V555:AEP,UK,CIS,AUS,EE,MY,SP,HK)	

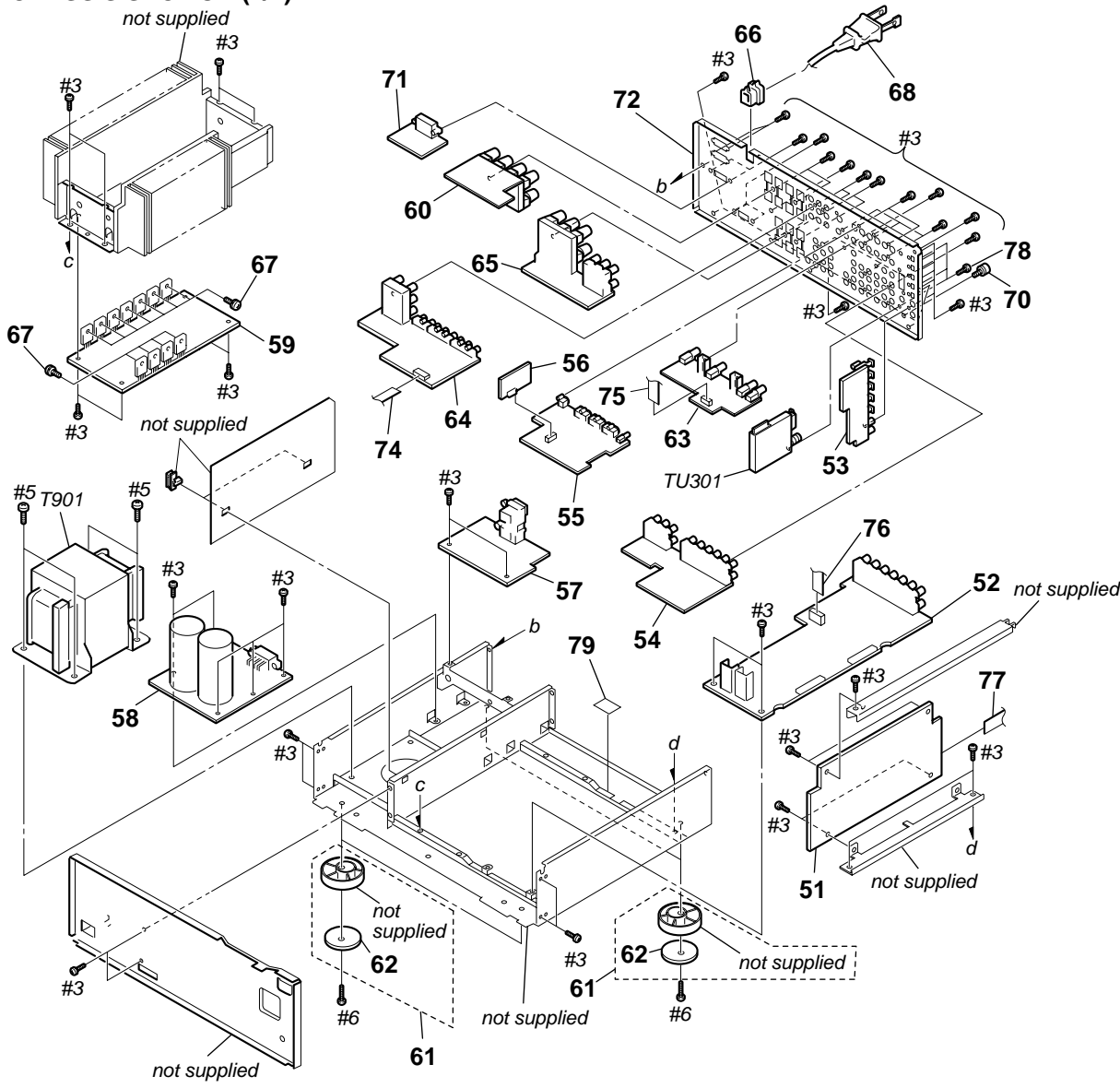
## 6-2. FRONT PANEL SECTION (2/2)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
7	A-4412-386-A	BASE(B) ASSY,PANEL (BLACK) (V555:AEP,UK,CIS,EE,AUS)		18	4-228-839-11	DOOR(BASE)(GOLD)	
7	A-4412-388-A	BASE(N) ASSY,PANEL (GOLD)(V555:CH,TW)		19	4-210-291-01	SCREW (CASE 3 TP2) (BLACK)	
7	A-4412-389-A	BASE(B) ASSY, PANEL (BLACK)(V333)		19	4-210-291-11	SCREW (CASE 3 TP2) (GOLD)	
8	4-228-862-01	WINDOW (IR) (BLACK)		20	3-703-466-00	SPRING (6600)	
8	4-228-862-11	WINDOW (IR) (GOLD)		21	3-167-330-01	WASHER	
9	X-4953-248-2	CASE(B) ASSY (BLACK)		22	4-228-857-01	ARM,DOOR LOCK	
9	X-4953-249-1	CASE(N) ASSY (GOLD)		23	4-228-858-01	ARM	
10	4-218-304-01	KNOB(F14) (BLACK)		24	4-228-860-01	SPRING, TENSION	
10	4-218-304-11	KNOB(F14) (GOLD)		25	4-228-861-01	SPRING, TENSION	
11	4-228-859-01	KNOB(JOG) (BLACK)		26	3-973-975-01	DAMPER, OIL	
11	4-228-859-11	KNOB(JOG) (GOLD)		27	X-4952-961-1	BRACKET (DL) ASSY	
12	X-4951-912-1	KNOB(BAL) ASSY (BLACK)		28	X-4952-962-1	BRACKET (DR) ASSY	
12	X-4951-913-1	KNOB(BAL) ASSY (GOLD)		29	4-228-850-01	BUTTON (F)	
13	A-4473-457-A	DISPLAY BOARD, COMPLETE (V444/V555:US,CND)		30	4-228-849-01	BUTTON (E) (BLACK)	
13	A-4473-487-A	DISPLAY BOARD, COMPLETE (V555:AEP,UK,CIS,AUS,EE,MY,SP,HK)		30	4-228-849-11	BUTTON (E) (GOLD)	
13	A-4473-490-A	DISPLAY BOARD, COMPLETE(V555:E,PX,EA)		31	4-228-848-01	BUTTON (D) (BLACK)	
13	A-4473-509-A	DISPLAY BOARD, COMPLETE(V555:TW)		31	4-228-848-11	BUTTON (D) (GOLD)	
13	A-4473-511-A	DISPLAY BOARD, COMPLETE(V555:CH)		32	1-677-253-11	F-VIDEO BOARD	
13	A-4473-514-A	DISPLAY BOARD, COMPLETE(V333)		33	1-773-050-11	WIRE(FLAT TYPE) (17 CORE)	
14	A-4473-463-A	ROTARY BOARD, COMPLETE		34	1-769-903-11	WIRE(FLAT TYPE) (7 CORE)(EXCEPT US,CND)	
15	1-677-219-11	HP BOARD		34	1-769-999-11	WIRE(FLAT TYPE) (13 CORE)(US,CND)	
16	1-677-218-11	VOL BOARD		35	4-228-863-01	PLATE(B), INDICATION (BLACK)	
17	4-998-592-01	BUTTON (POWER) (BLACK)		35	4-228-864-01	PLATE(M), INDICATION (GOLD)	
17	4-998-592-11	BUTTON (POWER) (GOLD)		36	4-951-620-01	SCREW(2.6X8), +BVTP	
18	4-228-839-01	DOOR(BASE) (BLACK)		37	4-933-134-11	SCREW(+PTPWH M2.6X8)	
				38	4-228-856-01	PLATE(BUTTON F),INTERCEPTION	



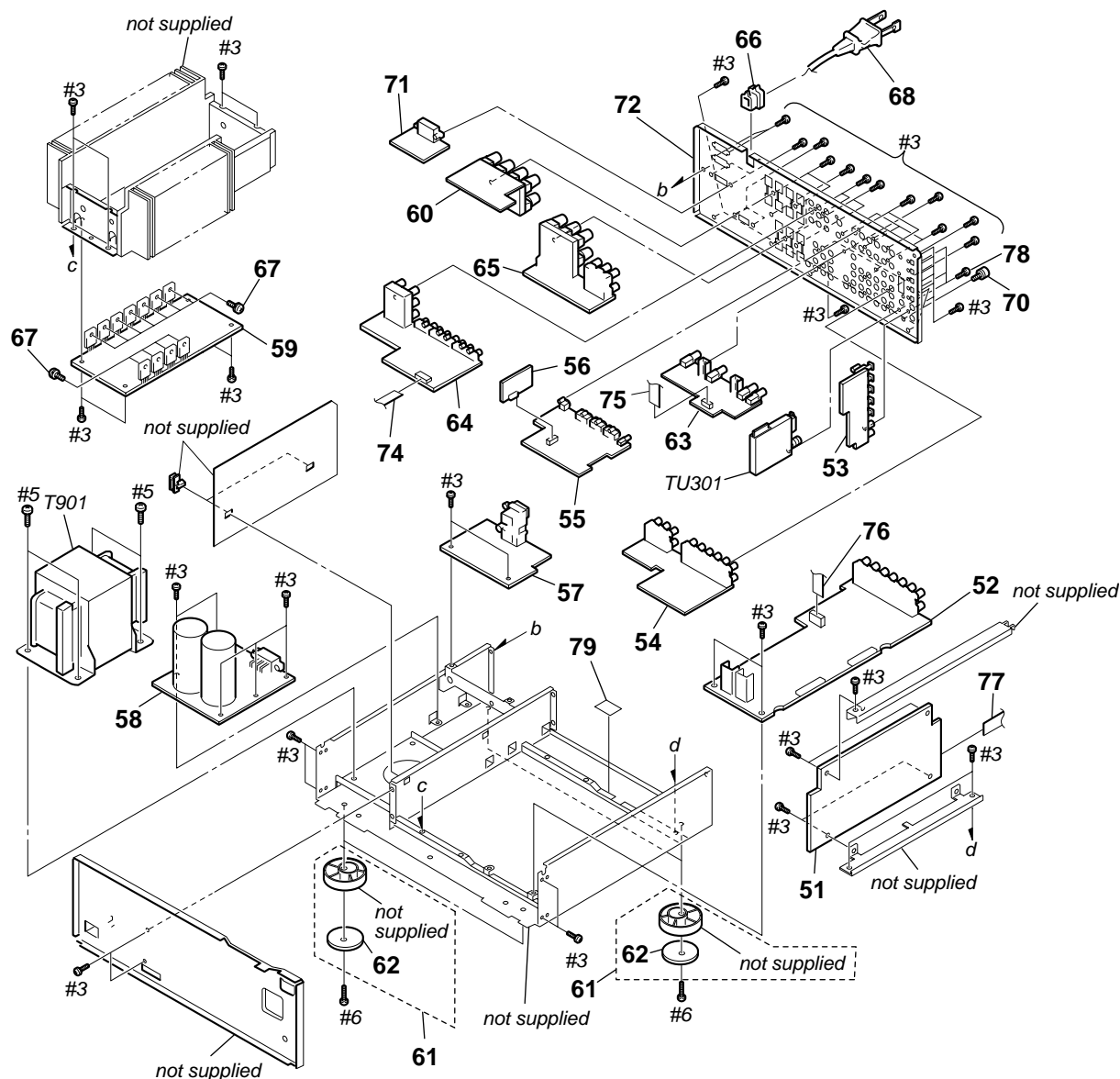
6-3. CHASSIS SECTION (1/2)



Ref. No.	Part No.	Description	Remark
51	A-4473-475-A	DIGITAL BOARD, COMPLETE (V444/V555:US,CND,E,PX,EA,TW)	
51	A-4473-484-A	DIGITAL BOARD, COMPLETE (V555:AEP,UK,CIS,AUS,EE,MY,SP,HK)	
51	A-4473-518-A	DIGITAL BOARD, COMPLETE(V333)	
51	A-4473-531-A	DIGITAL BOARD, COMPLETE(V555:CH)	
52	A-4473-459-A	INPUT BOARD, COMPLETE (V333/V444/V555:US,CND,E,PX,EA)	
52	A-4473-488-A	INPUT BOARD, COMPLETE (V555:AEP,UK,CIS,AUS,EE,MY,SP,HK,TW,CH)	
53	1-678-406-11	DIGITAL IN/OUT BOARD	
54	A-4473-465-A	AUDIO-2F BOARD, COMPLETE (V444/V555:US,CND,E,PX,EA)	
54	A-4473-479-A	AUDIO-2F BOARD, COMPLETE (V555:AEP,UK,CIS,AUS,EE,MY,SP,HK,TW,CH)	
54	A-4473-515-A	AUDIO-2F BOARD, COMPLETE(V333)	
55	A-4473-467-A	S-VIDEO BOARD, COMPLETE (V333/V444/V555:US,CND)	
55	A-4473-480-A	S-VIDEO BOARD, COMPLETE (V555:AEP,UK,CIS,AUS,EE,MY,SP,HK,E,PX,EA,CH)	
55	A-4473-498-A	S-VIDEO BOARD, COMPLETE(V555:TW)	
56	1-677-222-11	CLOCK BOARD (V555:AEP,UK,CIS,AUS,EE,MY,SP,E,PX,EA,CH)	
57	A-4473-452-A	AC BOARD, COMPLETE	

Ref. No.	Part No.	Description	Remark
			(V333/V444/V555:US,CND)
57	A-4473-486-A	AC BOARD, COMPLETE (V555:AEP,UK,CIS,AUS,EE,MY,SP,HK)	
57	A-4473-489-A	AC BOARD, COMPLETE(V555:E,PX,EA)	
57	A-4473-508-A	AC BOARD, COMPLETE(V555:TW)	
57	A-4473-510-A	AC BOARD, COMPLETE(V555:CH)	
58	A-4473-454-A	DC BOARD, COMPLETE(V444/V555:BLACK)	
58	A-4473-653-A	DC BOARD, COMPLETE(V333)	
58	A-4475-203-A	DC BOARD, COMPLETE(V555:GOLD)	
59	A-4473-455-A	POWER-AMP BOARD, COMPLETE	
60	1-677-226-11	FRONT SP BOARD	
61	X-4949-759-1	FOOT ASSY	
62	4-970-124-01	CUSHION (F50180S)	
63	1-677-224-11	M-BUS BOARD(V333/V444/V555:US,CND)	
64	A-4473-469-A	C-VIDEO BOARD, COMPLETE(V444,V555)	
64	A-4473-516-A	C-VIDEO BOARD, COMPLETE(V333)	
65	1-677-227-11	SURR SP BOARD	
66	4-916-783-01	BUSHING, CORD(V444/V555:US,CND)	
* 66	3-703-244-00	BUSHING (2104), CORD (V333/V555:AEP,UK,CIS,AUS,EE,MY,SP,E, PX,EA,HK,TW,CH)	
67	3-905-609-11	SCREW (TRANSISTOR)	
△ 68	1-559-479-11	CORD, POWER(V444/V555:US,CND,TW)	

## 6-4. CHASSIS SECTION (2/2)



The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

以阴影和 △ 标志来识别的零部件，在安全方面具有关键性。因此只能以规定号码的零部件来更换。

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
△ 68	1-575-953-11	CORD, POWER (V555:AEP,UK,CIS,AUS,EE,MY,SP,HK,PX,EA)		75	1-765-315-11	WIRE(FLAT TYPE) (7 CORE)(V444/V555:US,CND)	
				75	1-769-888-11	WIRE(FLAT TYPE) (7 CORE)(V333)	
△ 68	1-776-095-11	CORD, POWER (E)		76	1-773-037-11	WIRE(FLAT TYPE) (17 CORE)	
△ 68	1-782-464-21	CORD, POWER(V555:CH)		77	1-773-008-11	WIRE(FLAT TYPE) (15 CORE)	
△ 68	1-783-820-11	CORD, POWER(V333)		78	3-704-515-21	SCREW(BV/RING)	
70	4-947-010-01	SCREW, FEEDER FIXED		* 79	4-871-306-21	RUBBER (A)	
71	1-677-214-11	V-SEL BOARD(V555:E,PX,EA)		△ T901	1-435-448-11	TRANSFORMER, POWER(V444/V555:US,CND)	
				△ T901	1-435-449-11	TRANSFORMER, POWER (V555:AEP,UK,CIS,AUS,EE,MY,SP,HK,CH)	
72	4-228-819-01	PANEL (E5), BACK(V555:US,CND,PX,EA)		△ T901	1-435-450-11	TRANSFORMER, POWER(V555:E,PX,EA)	
72	4-228-819-11	PANEL (E5), BACK(V444)		△ T901	1-435-588-11	TRANSFORMER, POWER(V555:TW)	
72	4-228-819-21	PANEL (E5), BACK(V333)		△ T901	1-435-686-11	TRANSFORMER, POWER(V333)	
72	4-228-819-31	PANEL (E5), BACK (V555:AEP,UK,CIS,AUS,EE,MY,SP,HK)					
72	4-228-819-41	PANEL (E5), BACK(V555:E)		TU301	1-693-407-23	TUNER (V333/V444/V555:US,CND,E,PX,EA,TW)	
72	4-228-819-51	PANEL (E5), BACK(V555:CH)		TU301	1-693-409-23	TUNER(V555:UK,CIS,AUS,EE,MY,SP,HK)	
72	4-228-819-61	PANEL (E5), BACK(V555:TW)		TU301	1-693-409-24	TUNER(V555:AEP,CH)	
74	1-769-939-11	WIRE(FLAT TYPE) (11 CORE)					

SECTION 7  
ELECTRICAL PARTS LIST

Note:

The components identified by mark  $\triangle$  or dotted line with mark  $\triangle$  are critical for safety.  
Replace only with part number specified.

Les composants identifiés par une marque  $\triangle$  sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le numéro spécifié.

以阴影和  $\triangle$  标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked “\*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS  
All resistors are in ohms  
METAL: Metal-film resistor  
METAL OXIDE: Metal Oxide-film resistor  
F : nonflammable
- SEMICONDUCTORS  
In each case, u:  $\mu$  , for example:  
uA...:  $\mu$  A..., uPA...:  $\mu$  PA..., uPB...:  $\mu$  PB...,  
uPC...:  $\mu$  PC..., uPD...:  $\mu$  PD...
- CAPACITORS  
uF :  $\mu$  F
- COILS  
uH :  $\mu$  H
- Abbreviation  
CND : Canadian model  
AUS : Australian model  
CH : Chinese model  
EE : East European model  
EA : Saudi Arabia model  
SP : Singapore model  
TW : Taiwan model  
MY : Malaysia model  
HK : Hong Kong model
- V333: STR-V333ES  
V444: STR-V444ES  
V555: STR-V555ES

Ref. No.	Part No.	Description	Remark
	A-4473-486-A	AC BOARD, COMPLETE ***** (AEP,UK,CIS,AUS,EE,MY,SP,HK)	
	A-4473-452-A	AC BOARD, COMPLETE(US,CND) *****	
	A-4473-508-A	AC BOARD, COMPLETE(TW) *****	
	A-4473-510-A	AC BOARD, COMPLETE (CH) *****	
	A-4473-489-A	AC BOARD, COMPLETE(E,PX,EA) *****	
	1-533-399-11	HOLDER, FUSE  < CAPACITOR >	
C901	1-136-157-00	MYLAR 0.022uF 5% 50V	
C902	1-136-157-00	MYLAR 0.022uF 5% 50V	
C903	1-127-722-51	ELECT CHIP 2200uF 20% 16V	
C904	1-163-251-11	CERAMIC CHIP 100PF 5% 50V	
C905	1-126-960-11	ELECT 1uF 20% 50V	
C906	1-163-137-00	CERAMIC CHIP 680PF 5% 50V (NEW TYPE)	
C907	1-137-438-11	MYLAR 0.0082uF 5% 50V (NEW TYPE)	
		< CONNECTOR >	
CNP901	1-564-321-00	PIN, CONNECTOR 2P	
* CNP902	1-565-792-11	PIN, CONNECTOR 2P	
CNP906	1-784-921-11	PIN, CONNECTOR 4P	
CNP907	1-568-106-11	PIN, CONNECTOR 4P(E,PX,EA)	
		< DIODE >	
D901	8-719-200-82	DIODE 11ES2-TB5	
D902	8-719-200-82	DIODE 11ES2-TB5	
D903	8-719-200-82	DIODE 11ES2-TB5	
D904	8-719-200-82	DIODE 11ES2-TB5	
D905	8-719-988-61	DIODE 1SS355TE-17	

Ref. No.	Part No.	Description	Remark
D906	8-719-988-61	DIODE 1SS355TE-17	
D907	8-719-988-61	DIODE 1SS355TE-17	
		< TERMINAL >	
* EP901	1-537-738-21	TERMINAL, EARTH(US,CND)	
* EP902	1-537-738-21	TERMINAL, EARTH	
		< FUSE >	
$\triangle$ F901	1-532-465-51	FUSE, TIME LAG 2.5A/250V (EXCEPT US,CND,TW)	
$\triangle$ F901	1-533-312-11	FUSE, GLASS CYLINDRICAL(DIA.5) 10A/125V (US,CND,TW)	
$\triangle$ F902	1-532-464-51	FUSE T2.5AL/250V (AEP,UK,CIS,AUS,EE,MY,SP,CH)	
		< JACK >	
$\triangle$ J901	1-785-285-11	OUTLET, AC(1P)(AC OUTLET) (AEP,UK,CIS,AUS,EE,MY,SP,HK)	
$\triangle$ J901	1-251-718-11	OUTLET(2 GANG), AC(AC OUTLET) (US,CND,E,PX,EA,TW)	
$\triangle$ J901	1-815-076-11	OUTLET(2 GANG), AC(AC OUTLET)(CH)	
		< TRANSISTOR >	
Q901	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
		< RESISTOR >	
$\triangle$ R901	1-202-725-00	SOLID 3.3M 10% 1/2W (US,CND)	
R902	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R903	1-216-065-00	RES-CHIP 4.7K 5% 1/10W	
R904	1-216-093-00	RES-CHIP 68K 5% 1/10W	
R905	1-216-085-00	METAL CHIP 33K 5% 1/10W	
R906	1-216-061-91	RES-CHIP 3.3K 5% 1/10W (NEW TYPE)	
		< RELAY >	
$\triangle$ RY901	1-755-298-11	RELAY(EXCEPT US,CND)	
$\triangle$ RY901	1-755-393-11	POWER RELAY(US,CND)	

Ref. No.	Part No.	Description	Remark
< TRANSFORMER >			
△ T902	1-435-435-11	TRANSFORMER, POWER (AEP,UK,CIS,AUS,EE,MY,SP,HK,CH)	
△ T902	1-435-434-11	TRANSFORMER, POWER(E,PX,EA)	
△ T902	1-435-563-11	TRANSFORMER, POWER(TW)	
△ T902	1-435-162-11	TRANSFORMER, POWER(US,CND)	
*****			
A-4473-465-A	AUDIO-2F BOARD, COMPLETE ***** (V444/V555:US,CND,E,PX,EA)		
A-4473-515-A	AUDIO-2F BOARD, COMPLETE (V333) *****		
A-4473-479-A	AUDIO-2F BOARD, COMPLETE ***** (EXCEPT V555: US,CND,E,PX,EA)		
< CAPACITOR >			
C300	1-137-503-11	MYLAR	0.0001uF 5% 50V (EXCEPT US,CND,E,PX,EA)
C310	1-163-033-00	CERAMIC CHIP	0.022uF 50V
C321	1-119-823-11	ELECT	4.7uF 20% 50V
C322	1-119-825-41	ELECT	22uF 20% 50V
C323	1-163-033-00	CERAMIC CHIP	0.022uF 50V
C325	1-137-503-11	MYLAR	0.0001uF 5% 50V (EXCEPT US,CND,E,PX,EA)
C326	1-137-503-11	MYLAR	0.0001uF 5% 50V (EXCEPT US,CND,E,PX,EA)
C327	1-137-503-11	MYLAR	0.0001uF 5% 50V (EXCEPT US,CND,E,PX,EA)
C328	1-137-503-11	MYLAR	0.0001uF 5% 50V (EXCEPT US,CND,E,PX,EA)
C329	1-137-503-11	MYLAR	0.0001uF 5% 50V (EXCEPT US,CND,E,PX,EA)
C343	1-137-503-11	MYLAR	0.0001uF 5% 50V (EXCEPT US,CND,E,PX,EA)
C344	1-137-503-11	MYLAR	0.0001uF 5% 50V (EXCEPT US,CND,E,PX,EA)
C345	1-137-503-11	MYLAR	0.0001uF 5% 50V (EXCEPT US,CND,E,PX,EA)
C346	1-163-033-00	CERAMIC CHIP	0.022uF 50V
C347	1-163-033-00	CERAMIC CHIP	0.022uF 50V
C348	1-163-251-11	CERAMIC CHIP	100PF 5% 50V
C350	1-137-503-11	MYLAR	0.0001uF 5% 50V (EXCEPT US,CND,E,PX,EA)
C371	1-119-823-11	ELECT	4.7uF 20% 50V
C372	1-119-825-41	ELECT	22uF 20% 50V
C373	1-163-033-00	CERAMIC CHIP	0.022uF 50V (V444/V555)
C374	1-163-033-00	CERAMIC CHIP	0.022uF 50V (V444/V555)
C375	1-137-503-11	MYLAR	0.0001uF 5% 50V (EXCEPT US,CND,E,PX,EA)
C376	1-137-503-11	MYLAR	0.0001uF 5% 50V (EXCEPT US,CND,E,PX,EA)
C377	1-137-503-11	MYLAR	0.0001uF 5% 50V (EXCEPT US,CND,E,PX,EA)
C378	1-137-503-11	MYLAR	0.0001uF 5% 50V (EXCEPT US,CND,E,PX,EA)
C379	1-137-503-11	MYLAR	0.0001uF 5% 50V (EXCEPT US,CND,E,PX,EA)

Ref. No.	Part No.	Description	Remark		
C393	1-137-503-11	MYLAR	0.0001uF	5%	50V (EXCEPT US,CND,E,PX,EA)
C394	1-137-503-11	MYLAR	0.0001uF	5%	50V (EXCEPT US,CND,E,PX,EA)
C395	1-137-503-11	MYLAR	0.0001uF	5%	50V (EXCEPT US,CND,E,PX,EA)
C397	1-163-033-00	CERAMIC CHIP	0.022uF		50V
C398	1-163-033-00	CERAMIC CHIP	0.022uF		50V
C399	1-163-033-00	CERAMIC CHIP	0.022uF		50V
< CONNECTOR >					
CNP303	1-779-978-11	PIN, CONNECTOR 3P			
CNS303	1-784-778-11	CONNECTOR, FFC 17P			
< IC >					
IC300	8-759-677-18	IC TC9164AF (ELP)			
IC307	8-759-099-06	IC M5218AFP-TE1			
IC308	8-759-677-20	IC TC9273F-014 (EL)(V444/V555)			
< JACK >					
J304	1-778-517-11	JACK, PIN 6P (VIDEO 2/TV/SAT/DVD/LD)			
J305	1-778-517-11	JACK, PIN 6P (VIDEO 1)			
J306	1-793-345-21	JACK, PIN 6P (5.1CH INPUT)			
< RESISTOR >					
R300	1-208-782-11	RES-CHIP	1K	2%	1/10W
R324	1-208-854-11	RES-CHIP	1M	2%	1/10W
R325	1-218-760-11	RES-CHIP	220K	2%	1/10W
R337	1-208-782-11	RES-CHIP	1K	2%	1/10W
R338	1-208-782-11	RES-CHIP	1K	2%	1/10W
R339	1-208-782-11	RES-CHIP	1K	2%	1/10W
R340	1-208-782-11	RES-CHIP	1K	2%	1/10W
R341	1-208-782-11	RES-CHIP	1K	2%	1/10W
R342	1-208-782-11	RES-CHIP	1K	2%	1/10W
R343	1-208-782-11	RES-CHIP	1K	2%	1/10W
R344	1-208-782-11	RES-CHIP	1K	2%	1/10W
R350	1-208-782-11	RES-CHIP	1K	2%	1/10W
R374	1-208-854-11	RES-CHIP	1M	2%	1/10W
R375	1-218-760-11	RES-CHIP	220K	2%	1/10W
R381	1-216-025-00	RES-CHIP	100	5%	1/10W
R382	1-216-025-00	RES-CHIP	100	5%	1/10W
R383	1-216-025-00	RES-CHIP	100	5%	1/10W
R387	1-208-782-11	RES-CHIP	1K	2%	1/10W
R388	1-208-782-11	RES-CHIP	1K	2%	1/10W
R389	1-208-782-11	RES-CHIP	1K	2%	1/10W
R390	1-208-782-11	RES-CHIP	1K	2%	1/10W
R391	1-208-782-11	RES-CHIP	1K	2%	1/10W
R392	1-208-782-11	RES-CHIP	1K	2%	1/10W
R393	1-208-782-11	RES-CHIP	1K	2%	1/10W
R394	1-208-782-11	RES-CHIP	1K	2%	1/10W
*****					
	1-677-222-11	CLOCK BOARD(EXCEPT US,CND,TW) *****			
< CAPACITOR >					
C256	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C257	1-163-091-00	CERAMIC CHIP	8PF		50V
C258	1-163-091-00	CERAMIC CHIP	8PF		50V
C259	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C260	1-165-319-11	CERAMIC CHIP	0.1uF		50V

The components identified by mark △ or dotted line with mark △ are critical for safety.  
Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le numéro spécifié.

以阴影和 △ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。



**CLOCK****C-VIDEO**

Ref. No.	Part No.	Description	Remark		
C261	1-104-664-11	ELECT	47uF	20%	16V
C2010	1-165-319-11	CERAMIC CHIP	0.1uF		50V
< CONNECTOR >					
CNS202	1-750-179-11	SOCKET, CONNECTOR 5P			
< TRIMMER >					
CT201	1-141-442-91	CAP, CERAMIC TRIMMER 20PF			
CT202	1-141-442-91	CAP, CERAMIC TRIMMER 20PF			
< FERRITE BEAD >					
FB203	1-414-813-11	FERRITE,EMI			
< IC >					
IC207	8-759-242-70	IC TC7WU04F(TE12R)			
IC208	8-759-032-01	IC TC74HC00AF(EL)			
< RESISTOR >					
R242	1-216-025-00	RES-CHIP	100	5%	1/10W
R243	1-216-035-00	METAL CHIP	270	5%	1/10W
R244	1-216-035-00	METAL CHIP	270	5%	1/10W
R269	1-216-025-00	RES-CHIP	100	5%	1/10W
R270	1-216-025-00	RES-CHIP	100	5%	1/10W
R276	1-216-121-00	RES-CHIP	1M	5%	1/10W
R277	1-216-121-00	RES-CHIP	1M	5%	1/10W
< VIBRATOR >					
X200	1-781-820-21	VIBRATOR, CRYSTAL(17.34MHz)			
X201	1-781-821-21	VIBRATOR, CRYSTAL(14.31MHz)			
*****					
A-4473-469-A		C-VIDEO BOARD, COMPLETE(V444/V555)			
*****					
A-4473-516-A		C-VIDEO BOARD, COMPLETE(V333)			
*****					
< CAPACITOR >					
C201	1-126-964-11	ELECT	10uF	20%	50V
C202	1-126-964-11	ELECT	10uF	20%	50V
C203	1-126-964-11	ELECT	10uF	20%	50V
C204	1-126-964-11	ELECT	10uF	20%	50V
C205	1-164-690-11	CERAMIC CHIP	0.0022uF	5%	50V
C206	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C207	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C208	1-126-964-11	ELECT	10uF	20%	50V
C209	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C210	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C211	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C212	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C213	1-104-664-11	ELECT	47uF	20%	16V
C214	1-104-664-11	ELECT	47uF	20%	16V
C250	1-164-690-11	CERAMIC CHIP	0.0022uF	5%	50V
C253	1-126-964-11	ELECT	10uF	20%	50V
					(V444/V555)
C254	1-126-964-11	ELECT	10uF	20%	50V
					(V444/V555)
C255	1-126-925-11	ELECT	470uF	20%	10V

Ref. No.	Part No.	Description			Remark
C278	1-126-964-11	ELECT	10uF	20%	50V (V444/V555)
C280	1-126-964-11	ELECT	10uF	20%	50V (V444/V555)
C281	1-104-664-11	ELECT	47uF	20%	16V (V444/V555)
C282	1-104-664-11	ELECT	47uF	20%	16V (V444/V555)
C283	1-163-243-11	CERAMIC CHIP	47PF	5%	50V (V444/V555)
C284	1-126-964-11	ELECT	10uF	20%	50V (V444/V555)
C285	1-126-964-11	ELECT	10uF	20%	50V (V444/V555)
C286	1-126-964-11	ELECT	10uF	20%	50V (V444/V555)
C287	1-126-964-11	ELECT	10uF	20%	50V (V444/V555)
C288	1-163-243-11	CERAMIC CHIP	47PF	5%	50V (V444/V555)
C289	1-163-243-11	CERAMIC CHIP	47PF	5%	50V (V444/V555)
C290	1-126-925-11	ELECT	470uF	20%	10V (V444/V555)
C291	1-126-964-11	ELECT	10uF	20%	50V (V444/V555)
C292	1-126-964-11	ELECT	10uF	20%	50V (V444/V555)
C293	1-126-964-11	ELECT	10uF	20%	50V (V444/V555)
C294	1-126-964-11	ELECT	10uF	20%	50V (V444/V555)
C295	1-126-964-11	ELECT	10uF	20%	50V (V444/V555)
C296	1-126-964-11	ELECT	10uF	20%	50V (V444/V555)
C297	1-104-664-11	ELECT	47uF	20%	16V (V444/V555)
C298	1-126-925-11	ELECT	470uF	20%	10V (V444/V555)
C299	1-126-925-11	ELECT	470uF	20%	10V (V444/V555)
C2003	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C2005	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C2007	1-164-690-11	CERAMIC CHIP	0.0022uF	5%	50V (V333)
C2008	1-164-690-11	CERAMIC CHIP	0.0022uF	5%	50V (V444/V555)
C2009	1-104-664-11	ELECT	47uF	20%	16V (V444/V555)
< CONNECTOR >					
* CNP210	1-564-505-11	PLUG, CONNECTOR 2P			
CNS200	1-784-733-11	CONNECTOR, FFC 11P			
< DIODE >					
D202	8-719-801-78	DIODE 1SS184-TE85L(V444/V555)			
< FERRITE BEAD >					
FB201	1-216-296-00	SHORT	0		

**C-VIDEO****DC**

Ref. No.	Part No.	Description	Remark				Ref. No.	Part No.	Description	Remark			
< IC >						R271	1-216-022-00	METAL CHIP	75	5%	1/10W (V444/V555)		
IC201	8-759-536-24	IC NJM-2296M-TE2					R272	1-216-121-00	RES-CHIP	1M	5%	1/10W (V444/V555)	
IC211	8-759-536-24	IC NJM-2296M-TE2(V444/V555)					R273	1-216-121-00	RES-CHIP	1M	5%	1/10W (V444/V555)	
IC212	8-759-293-22	IC NJM2268M-TE1(V444/V555)					R274	1-216-121-00	RES-CHIP	1M	5%	1/10W (V444/V555)	
IC213	8-759-293-22	IC NJM2268M-TE1(V444/V555)					R275	1-216-022-00	METAL CHIP	75	5%	1/10W (V444/V555)	
IC214	8-759-085-51	IC NJM2284M(TE2)(V444/V555)					R280	1-216-022-00	METAL CHIP	75	5%	1/10W (V444/V555)	
< JACK >						*****							
J200	1-770-337-21	JACK, PIN 3P(TV/SAT/DVD/LD)					A-4475-203-A	DC BOARD, COMPLETE(V555(GOLD)) *****					
J201	1-794-435-11	JACK, PIN 2P(2ND AV/MONITOR)(V444/V555)					A-4473-653-A	DC BOARD, COMPLETE(V333) *****					
J201	1-774-227-21	JACK, PIN 1P(TV/SAT/DVD/LD)(V333)					A-4473-454-A	DC BOARD, COMPLETE(V444/V555(BLACK)) *****					
J202	1-770-337-21	JACK, PIN 3P(TV/SAT, DVD/LD)					1-533-399-11	HOLDER, FUSE					
J212	1-794-313-11	JACK, PIN (BLOCK) 9P(COMPONENT VIDEO) (V444/V555)					< CAPACITOR >						
< TRANSISTOR >						C801	1-130-781-00	MYLAR	0.22uF	5%	100V (NEW TYPE)		
Q204	8-729-216-22	TRANSISTOR 2SA1162-YG-TE85L(V444/V555)					C801	1-136-287-11	MYLAR	0.0047uF	10%	100V (FORMER TYPE)	
Q205	8-729-027-43	TRANSISTOR RT1N141C-TP-1(V444/V555)					C802	1-130-781-00	MYLAR	0.22uF	5%	100V (NEW TYPE)	
Q206	8-729-027-23	TRANSISTOR RT1P141C-TP-1(V444/V555)					C802	1-136-287-11	MYLAR	0.0047uF	10%	100V (FORMER TYPE)	
< RESISTOR >						C803	1-125-900-12	ELECT	15000uF	20%	71V (V333)		
R201	1-216-022-00	METAL CHIP	75	5%	1/10W	C803	1-135-926-11	CAP, ELECT	18000uF	20%	10V (V444/V555)		
R202	1-216-022-00	METAL CHIP	75	5%	1/10W	C804	1-135-926-11	CAP, ELECT	18000uF	20%	10V (V444/V555)		
R203	1-216-022-00	METAL CHIP	75	5%	1/10W	C804	1-125-900-12	ELECT	15000uF	20%	71V (V333)		
R204	1-216-022-00	METAL CHIP	75	5%	1/10W	C805	1-126-967-11	ELECT	47uF	20%	50V		
R205	1-216-022-00	METAL CHIP	75	5%	1/10W	C806	1-130-777-00	MYLAR	0.1uF	5%	100V (NEW TYPE)		
R206	1-216-022-00	METAL CHIP	75	5%	1/10W	C806	1-136-153-00	FILM	0.01uF	5%	50V (FORMER TYPE)		
R207	1-216-022-00	METAL CHIP	75	5%	1/10W	C807	1-130-777-00	MYLAR	0.1uF	5%	100V (NEW TYPE)		
R234	1-216-073-00	METAL CHIP	10K	5%	1/10W (V444/V555)	C807	1-136-153-00	FILM	0.01uF	5%	50V (FORMER TYPE)		
R239	1-216-073-00	METAL CHIP	10K	5%	1/10W (V444/V555)	C808	1-127-732-51	ELECT MELF	2200uF	20%	35V		
R240	1-216-097-00	RES-CHIP	100K	5%	1/10W (V444/V555)	C809	1-127-732-51	ELECT MELF	2200uF	20%	35V		
R253	1-216-022-00	METAL CHIP	75	5%	1/10W (V444/V555)	C810	1-136-153-00	FILM	0.01uF	5%	50V		
R256	1-216-049-11	RES-CHIP	1K	5%	1/10W	C811	1-136-153-00	FILM	0.01uF	5%	50V		
R257	1-216-022-00	METAL CHIP	75	5%	1/10W (V444/V555)	C812	1-126-967-11	ELECT	47uF	20%	50V		
R258	1-216-022-00	METAL CHIP	75	5%	1/10W (V444/V555)	C815	1-128-553-11	ELECT	220uF	20%	63V		
R259	1-216-022-00	METAL CHIP	75	5%	1/10W (V444/V555)	C816	1-126-967-11	ELECT	47uF	20%	50V		
R260	1-216-022-00	METAL CHIP	75	5%	1/10W (V444/V555)	C822	1-136-921-11	MYLAR	1uF	5%	50V		
R261	1-216-022-00	METAL CHIP	75	5%	1/10W (V444/V555)	C823	1-135-695-51	ELECT MELF	4700uF	20%	16V		
R262	1-216-022-00	METAL CHIP	75	5%	1/10W (V444/V555)	C824	1-127-721-11	ELECT	1000uF	20%	16V		
R263	1-216-022-00	METAL CHIP	75	5%	1/10W (V444/V555)	< CONNECTOR >							
R264	1-216-022-00	METAL CHIP	75	5%	1/10W (V444/V555)	CNP801	1-784-926-11	PIN, CONNECTOR 11P					
R265	1-216-022-00	METAL CHIP	75	5%	1/10W (V444/V555)								
R266	1-216-049-11	RES-CHIP	1K	5%	1/10W (V444/V555)								
R267	1-216-049-11	RES-CHIP	1K	5%	1/10W (V444/V555)								
R268	1-216-049-11	RES-CHIP	1K	5%	1/10W (V444/V555)								

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
CNP802	1-691-768-11	PLUG (MICRO CONNECTOR) 6P		A-4473-484-A	DIGITAL BOARD, COMPLETE		
CNP803	1-785-102-11	PIN, CONNECTOR 4P			*****		
CNP804	1-691-769-11	PLUG (MICRO CONNECTOR) 7P			(V555: AEP,UK,CIS,AUS,EE,MY,SP,HK)		
CNP903	1-785-103-11	PIN, CONNECTOR 5P		7-685-646-79	SCREW +BVTP 3X8	TYPE2 IT-3	
		< DIODE >			< CAPACITOR >		
D801	8-719-302-38	DIODE RBV-602-01		C417	1-165-319-11	CERAMIC CHIP 0.1uF	50V
D802	8-719-302-38	DIODE RBV-602-01					(FORMER TYPE)
D803	8-719-200-82	DIODE 11ES2-TB5		C1201	1-165-319-11	CERAMIC CHIP 0.1uF	50V
D804	8-719-200-82	DIODE 11ES2-TB5		C1202	1-163-037-11	CERAMIC CHIP 0.022uF	10% 25V
D805	8-719-200-82	DIODE 11ES2-TB5					(FORMER TYPE)
D806	8-719-200-82	DIODE 11ES2-TB5		C1202	1-165-319-11	CERAMIC CHIP 0.1uF	50V
D807	8-719-200-82	DIODE 11ES2-TB5					(NEW TYPE)
D808	8-719-200-82	DIODE 11ES2-TB5		C1203	1-165-319-11	CERAMIC CHIP 0.1uF	50V
D809	8-719-200-82	DIODE 11ES2-TB5		C1204	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
D810	8-719-200-82	DIODE 11ES2-TB5		C1205	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
D811	8-719-057-00	DIODE UDZ-TE-17-36B		C1206	1-119-824-11	ELECT MELF 10uF	20% 50V
D812	8-719-200-82	DIODE 11ES2-TB5		C1207	1-165-319-11	CERAMIC CHIP 0.1uF	50V
D813	8-719-200-82	DIODE 11ES2-TB5		C1208	1-165-319-11	CERAMIC CHIP 0.1uF	50V
D814	8-719-422-12	DIODE UDZ-TE-17-3.9B(V555(GOLD))		C1209	1-165-319-11	CERAMIC CHIP 0.1uF	50V
D816	8-719-070-30	DIODE PTZ-TE25-5.6A		C1210	1-165-319-11	CERAMIC CHIP 0.1uF	50V
		< FUSE >		C1211	1-165-319-11	CERAMIC CHIP 0.1uF	50V
△ F801	1-533-312-11	FUSE, GLASS CYLINDRICAL(DIA.5) 10A/125V (US,CND,E,PX,EA,TW,CH)		C1212	1-163-021-11	CERAMIC CHIP 0.01uF	10% 50V
△ F802	1-533-312-11	FUSE, GLASS CYLINDRICAL(DIA.5) 10A/125V (US,CND,E,PX,EA,TW,CH)		C1301	1-165-319-11	CERAMIC CHIP 0.1uF	50V
△ F805	1-533-419-11	FUSE, GLASS CYLINDRICAL(DIA.5) 4A/125V (US,CND,TW)		C1302	1-165-319-11	CERAMIC CHIP 0.1uF	50V
△ F805	1-532-504-51	FUSE T4.0AL/250V(EXCEPT US,CND,TW)		C1303	1-165-319-11	CERAMIC CHIP 0.1uF	50V
△ F806	1-533-419-11	FUSE, GLASS CYLINDRICAL(DIA.5) 4A/125V (US,CND,TW)		C1304	1-165-319-11	CERAMIC CHIP 0.1uF	50V
				C1305	1-165-319-11	CERAMIC CHIP 0.1uF	50V
△ F806	1-532-504-51	FUSE T4.0AL/250V(EXCEPT US,CND,TW)		C1306	1-165-319-11	CERAMIC CHIP 0.1uF	50V
							(FORMER TYPE)
		< TRANSISTOR >		C1308	1-165-319-11	CERAMIC CHIP 0.1uF	50V
Q801	8-729-140-96	TRANSISTOR 2SD774-T-34		C1309	1-165-319-11	CERAMIC CHIP 0.1uF	50V
				C1310	1-165-319-11	CERAMIC CHIP 0.1uF	50V
		< RESISTOR >		C1311	1-165-319-11	CERAMIC CHIP 0.1uF	50V
R801	1-216-061-00	METAL CHIP 3.3K 5% 1/10W		C1312	1-127-718-91	ELECT MELF 100uF	20% 16V
△ R802	1-249-401-11	CARBON 47 5% 1/4W F					(V444/V555)
R803	1-216-081-00	METAL CHIP 22K 5% 1/10W		C1312	1-128-840-11	ELECT 47uF	20% 16V
△ R804	1-260-292-11	CARBON 1 5% 1/2W					(V333)
△ R805	1-260-292-11	CARBON 1 5% 1/2W		C1313	1-165-319-11	CERAMIC CHIP 0.1uF	50V
				C1314	1-165-319-11	CERAMIC CHIP 0.1uF	50V
△ R806	1-249-381-11	CARBON 1 5% 1/4W F		C1315	1-165-319-11	CERAMIC CHIP 0.1uF	50V
△ R807	1-249-381-11	CARBON 1 5% 1/4W F					(FORMER TYPE)
△ R808	1-249-407-11	CARBON 150 5% 1/4W F		C1316	1-165-319-11	CERAMIC CHIP 0.1uF	50V
							(NEW TYPE)
		< SWITCH >		C1317	1-165-319-11	CERAMIC CHIP 0.1uF	50V
S902	1-771-876-11	SWITCH, POWER(IMPEDANCE SELECTOR)		C1318	1-165-319-11	CERAMIC CHIP 0.1uF	50V
		*****		C1319	1-165-319-11	CERAMIC CHIP 0.1uF	50V
				C1320	1-165-319-11	CERAMIC CHIP 0.1uF	50V
A-4473-475-A	DIGITAL BOARD, COMPLETE			C1321	1-127-718-91	ELECT MELF 100uF	20% 16V
	*****						(V444/V555)
	(V444/V555:US,CND,E,PX,EA,TW,CH)			C1321	1-128-840-11	ELECT 47uF	20% 16V
A-4473-518-A	DIGITAL BOARD, COMPLETE(V333)						(V333)
	*****			C1322	1-165-319-11	CERAMIC CHIP 0.1uF	50V
				C1323	1-165-319-11	CERAMIC CHIP 0.1uF	50V
				C1324	1-165-319-11	CERAMIC CHIP 0.1uF	50V
				C1325	1-165-319-11	CERAMIC CHIP 0.1uF	50V
				C1326	1-165-319-11	CERAMIC CHIP 0.1uF	50V

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.	以阴影和 △标志来识别的零部件，在安全方面具有关键性。因此只能以规定号码的零部件来更换。
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Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C1327	1-165-319-11	CERAMIC CHIP	0.1uF 50V	C1424	1-165-319-11	CERAMIC CHIP	0.1uF 50V
C1328	1-165-319-11	CERAMIC CHIP	0.1uF 50V				(FORMER TYPE)
C1329	1-163-099-00	CERAMIC CHIP	18PF 5% 50V	C1425	1-127-718-91	ELECT MELF	100uF 20% 16V
C1330	1-163-099-00	CERAMIC CHIP	18PF 5% 50V	C1426	1-165-319-11	CERAMIC CHIP	0.1uF 50V
C1331	1-163-133-00	CERAMIC CHIP	470PF 5% 50V				(FORMER TYPE)
C1332	1-165-319-11	CERAMIC CHIP	0.1uF 50V	C1427	1-165-319-11	CERAMIC CHIP	0.1uF 50V
C1333	1-165-319-11	CERAMIC CHIP	0.1uF 50V				(FORMER TYPE)
C1334	1-165-319-11	CERAMIC CHIP	0.1uF 50V	C1428	1-127-718-91	ELECT MELF	100uF 20% 16V
C1335	1-165-319-11	CERAMIC CHIP	0.1uF 50V	C1429	1-165-319-11	CERAMIC CHIP	0.1uF 50V
C1336	1-165-319-11	CERAMIC CHIP	0.1uF 50V				(FORMER TYPE)
C1337	1-165-319-11	CERAMIC CHIP	0.1uF 50V	C1430	1-165-319-11	CERAMIC CHIP	0.1uF 50V
C1338	1-165-319-11	CERAMIC CHIP	0.1uF 50V				(FORMER TYPE)
C1339	1-165-319-11	CERAMIC CHIP	0.1uF 50V	C1431	1-131-658-11	ELECT	1000uF 20% 63V
C1344	1-163-021-11	CERAMIC CHIP	0.01uF 10% 50V	C1432	1-163-021-11	CERAMIC CHIP	0.01uF 10% 50V
C1345	1-128-840-11	ELECT	47uF 20% 16V				(NEW TYPE)
			(V444/V555)	C1432	1-165-319-11	CERAMIC CHIP	0.1uF 50V
							(FORMER TYPE)
C1346	1-165-319-11	CERAMIC CHIP	0.1uF 50V	C1433	1-165-319-11	CERAMIC CHIP	0.1uF 50V
C1347	1-165-319-11	CERAMIC CHIP	0.1uF 50V				(FORMER TYPE)
C1348	1-163-021-11	CERAMIC CHIP	0.01uF 10% 50V	C1434	1-127-718-91	ELECT MELF	100uF 20% 16V
C1349	1-165-319-11	CERAMIC CHIP	0.1uF 50V	C1435	1-137-429-11	MYLAR	270PF 5% 50V
C1350	1-165-319-11	CERAMIC CHIP	0.1uF 50V	C1436	1-128-844-11	ELECT	33uF 20% 25V
C1351	1-163-021-11	CERAMIC CHIP	0.01uF 10% 50V	C1437	1-165-319-11	CERAMIC CHIP	0.1uF 50V
C1352	1-165-319-11	CERAMIC CHIP	0.1uF 50V				(FORMER TYPE)
C1353	1-165-319-11	CERAMIC CHIP	0.1uF 50V	C1438	1-137-457-11	MYLAR	0.0027uF 5% 50V
C1365	1-165-319-11	CERAMIC CHIP	0.1uF 50V	C1439	1-128-844-11	ELECT	33uF 20% 25V
C1375	1-163-275-11	CERAMIC CHIP	0.001uF 5% 50V	C1440	1-128-844-11	ELECT	33uF 20% 25V
C1376	1-163-275-11	CERAMIC CHIP	0.001uF 5% 50V	C1441	1-165-319-11	CERAMIC CHIP	0.1uF 50V
C1377	1-163-275-11	CERAMIC CHIP	0.001uF 5% 50V				(FORMER TYPE)
C1401	1-163-235-11	CERAMIC CHIP	22PF 5% 50V	C1442	1-137-429-11	MYLAR	270PF 5% 50V
C1402	1-163-275-11	CERAMIC CHIP	0.001uF 5% 50V	C1444	1-137-457-11	MYLAR	0.0027uF 5% 50V
C1403	1-165-319-11	CERAMIC CHIP	0.1uF 50V	C1446	1-128-844-11	ELECT	33uF 20% 25V
C1404	1-128-854-11	ELECT	0.47uF 20% 50V	C1447	1-119-824-11	ELECT MELF	10uF 20% 50V
C1405	1-165-319-11	CERAMIC CHIP	0.1uF 50V				(V333)
C1406	1-165-319-11	CERAMIC CHIP	0.1uF 50V	C1447	1-127-718-91	ELECT MELF	100uF 20% 16V
C1407	1-165-319-11	CERAMIC CHIP	0.1uF 50V				(V444/V555)
C1408	1-126-957-11	ELECT	0.22uF 20% 50V	C1448	1-165-319-11	CERAMIC CHIP	0.1uF 50V
C1409	1-163-021-11	CERAMIC CHIP	0.01uF 10% 50V	C1449	1-165-319-11	CERAMIC CHIP	0.1uF 50V
C1410	1-119-824-11	ELECT MELF	10uF 20% 50V	C1450	1-119-824-11	ELECT MELF	10uF 20% 50V
C1411	1-163-021-11	CERAMIC CHIP	0.01uF 10% 50V	C1451	1-119-824-11	ELECT MELF	10uF 20% 50V
			(NEW TYPE)	C1453	1-137-429-11	MYLAR	270PF 5% 50V
C1411	1-165-319-11	CERAMIC CHIP	0.1uF 50V	C1455	1-165-319-11	CERAMIC CHIP	0.1uF 50V
			(FORMER TYPE)				(FORMER TYPE)
C1412	1-165-319-11	CERAMIC CHIP	0.1uF 50V	C1456	1-137-457-11	MYLAR	0.0027uF 5% 50V
			(FORMER TYPE)	C1457	1-128-844-11	ELECT	33uF 20% 25V
C1413	1-131-658-11	ELECT	1000uF 20% 63V	C1459	1-165-319-11	CERAMIC CHIP	0.1uF 50V
C1417	1-163-021-11	CERAMIC CHIP	0.01uF 10% 50V				(FORMER TYPE)
			(NEW TYPE)	C1460	1-137-429-11	MYLAR	270PF 5% 50V
C1417	1-165-319-11	CERAMIC CHIP	0.1uF 50V	C1462	1-137-457-11	MYLAR	0.0027uF 5% 50V
			(FORMER TYPE)	C1464	1-128-844-11	ELECT	33uF 20% 25V
C1418	1-165-319-11	CERAMIC CHIP	0.1uF 50V	C1467	1-165-319-11	CERAMIC CHIP	0.1uF 50V
			(FORMER TYPE)	C1468	1-119-824-11	ELECT MELF	10uF 20% 50V
C1419	1-127-718-91	ELECT MELF	100uF 20% 16V	C1471	1-137-429-11	MYLAR	270PF 5% 50V
C1420	1-165-319-11	CERAMIC CHIP	0.1uF 50V	C1473	1-165-319-11	CERAMIC CHIP	0.1uF 50V
			(FORMER TYPE)				(FORMER TYPE)
C1421	1-165-319-11	CERAMIC CHIP	0.1uF 50V	C1474	1-137-457-11	MYLAR	0.0027uF 5% 50V
			(FORMER TYPE)	C1475	1-128-844-11	ELECT	33uF 20% 25V
C1422	1-119-793-11	ELECT	1000uF 20% 16V	C1477	1-165-319-11	CERAMIC CHIP	0.1uF 50V
C1423	1-163-021-11	CERAMIC CHIP	0.01uF 10% 50V				(FORMER TYPE)
			(NEW TYPE)	C1478	1-137-429-11	MYLAR	270PF 5% 50V
C1423	1-165-319-11	CERAMIC CHIP	0.1uF 50V	C1480	1-137-457-11	MYLAR	0.0027uF 5% 50V
			(FORMER TYPE)				

## DIGITAL

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C1482	1-128-844-11	ELECT	33uF 20% 25V	D1405	8-719-820-05	DIODE 1SS181-TE85L (FORMER TYPE)	
C1489	1-165-319-11	CERAMIC CHIP	0.1uF 50V	D1406	8-719-988-61	DIODE 1SS355TE-17	
			(FORMER TYPE)			< FERRITE BEAD >	
C1490	1-137-365-11	MYLAR	0.0015uF 5% 50V	FB1301	1-414-813-11	FERRITE	0uH
C1491	1-165-319-11	CERAMIC CHIP	0.1uF 50V	FB1302	1-414-813-11	FERRITE	0uH
			(FORMER TYPE)	FB1303	1-414-813-11	FERRITE	0uH
C1492	1-165-319-11	CERAMIC CHIP	0.1uF 50V	FB1304	1-414-813-11	FERRITE	0uH
			(FORMER TYPE)	FB1307	1-414-813-11	FERRITE	0uH
\ C1493	1-137-365-11	MYLAR	0.0015uF 5% 50V	FB1308	1-414-813-11	FERRITE	0uH
C1494	1-165-319-11	CERAMIC CHIP	0.1uF 50V	FB1401	1-410-397-21	FERRITE BEAD INDUCTOR	
			(FORMER TYPE)	FB1402	1-410-397-21	FERRITE BEAD INDUCTOR	
C1495	1-119-824-11	ELECT MELF	10uF 20% 50V	FB1403	1-500-425-11	FERRITE	0uH
C1496	1-165-319-11	CERAMIC CHIP	0.1uF 50V	FB1404	1-414-813-11	FERRITE	0uH
C1497	1-119-824-11	ELECT MELF	10uF 20% 50V				
C1498	1-165-319-11	CERAMIC CHIP	0.1uF 50V	FB1405	1-414-813-11	FERRITE	0uH
C1499	1-119-824-11	ELECT MELF	10uF 20% 50V	FB1406	1-414-813-11	FERRITE	0uH (NEW TYPE)
C1500	1-165-319-11	CERAMIC CHIP	0.1uF 50V			< IC >	
C1501	1-119-824-11	ELECT MELF	10uF 20% 50V	IC1201	8-759-666-21	IC MB90574PFV-G-295-BND	
C1502	1-165-319-11	CERAMIC CHIP	0.1uF 50V	IC1301	8-759-186-30	IC TC74VHC14F(EL)	
C1503	1-165-319-11	CERAMIC CHIP	0.1uF 50V	IC1302	8-759-035-90	IC TC7S02F(TE85R)	
C1504	1-163-037-11	CERAMIC CHIP	0.022uF 10% 25V	IC1303	8-759-586-22	IC TC74LVX4245FS(EL)	
C1505	1-163-243-11	CERAMIC CHIP	47PF 5% 50V	IC1304	8-752-391-87	IC CXD2712R	
			(AEP,UK,CIS,AUS,EA,MY,SP,HK)				
C1506	1-163-249-11	CERAMIC CHIP	82PF 5% 50V	IC1305	8-752-391-87	IC CXD2712R	
			(AEP,UK,CIS,AUS,EE,MY,SP,HK)	IC1306	8-759-672-30	IC IDT71V124SA15PH-TL	
C1507	1-119-821-11	ELECT MELF	2.2uF 20% 50V	IC1307	8-759-672-30	IC IDT71V124SA15PH-TL	
			(AEP,UK,CIS,AUS,EE,MY,SP,HK)	IC1308	8-759-538-16	IC IDT71V016S15PH-AUTL	
C1508	1-119-824-11	ELECT MELF	10uF 20% 50V	IC1309	8-759-524-32	IC TC74VHC367FT(EL)	
			(AEP,UK,CIS,AUS,EE,MY,SP,HK)				
C1509	1-163-077-00	CERAMIC CHIP	0.1uF 10% 25V	IC1310	8-759-242-70	IC TC7WU04F(TE12R)	
			(AEP,UK,CIS,AUS,EE,MY,SP,HK)	IC1311	8-759-643-42	IC CXD9511AQ	
C1510	1-163-135-00	CERAMIC CHIP	560PF 5% 50V	IC1314	8-759-639-35	IC LC89055W-RA8	
			(AEP,UK,CIS,AUS,EE,MY,SP,HK)	IC1402	8-759-544-04	IC NJM2103M-TE2	
C1511	1-163-263-11	CERAMIC CHIP	330PF 5% 50V	IC1403	8-759-647-10	IC uPC2933HF	
			(AEP,UK,CIS,AUS,EE,MY,SP,HK)				
		< CONNECTOR >		IC1405	8-759-231-53	IC M5F7805L	
CNP401	1-784-926-11	PIN, CONNECTOR 11P(V444/V555)		IC1406	8-759-647-11	IC uPC2905HF	
CNP401	1-784-923-11	PIN, CONNECTOR 7P(V333)		IC1407	8-759-231-53	IC M5F7805L	
CNP403	1-779-799-11	PIN, CONNECTOR 9P		IC1408	8-759-245-79	IC M5F7905L	
* CNP404	1-564-709-11	PIN, CONNECTOR (SMALL TYPE) 7P		IC1409	8-759-231-58	IC M5F7812L	
CNP405	1-573-852-11	CONNECTOR, BOARD TO BOARD 20P					
CNP406	1-564-320-00	PIN, CONNECTOR (B2P-VH) 2P		IC1410	8-759-231-53	IC M5F7805L	
CNP407	1-573-852-11	CONNECTOR, BOARD TO BOARD 20P		IC1411	8-759-636-55	IC M5218AFP-T1	
CNP409	1-784-925-11	PIN, CONNECTOR 10P		IC1412	8-759-668-80	IC PCM1600Y	
CNS401	1-784-778-11	CONNECTOR, FFC 17P		IC1413	8-759-636-55	IC M5218AFP-T1	
CNS404	1-563-618-11	CONNECTOR, FLEXIBLE 15P		IC1415	8-759-636-55	IC M5218AFP-T1	
		< DIODE >		IC1417	8-759-636-55	IC M5218AFP-T1	
D1201	8-719-801-78	DIODE 1SS184-TE85L		IC1418	8-759-636-55	IC M5218AFP-T1	
D1202	8-719-988-61	DIODE 1SS355TE-17 (FORMER TYPE)		IC1419	8-759-462-08	IC AK5352-VF-E2	
D1203	8-719-801-78	DIODE 1SS184-TE85L (FORMER TYPE)		IC1420	8-759-557-36	IC BU1924F-E2(AEP,UK,CIS,AUS,EE,MY,SP,HK)	
D1204	8-719-801-78	DIODE 1SS184-TE85L (FORMER TYPE)				< JUMPER RESISTOR >	
D1205	8-719-988-61	DIODE 1SS355TE-17 (FORMER TYPE)		JR1401	1-216-295-00	SHORT 0	
						(AEP,UK,CIS,AUS,EE,MY,SP,HK)	
D1302	8-719-988-61	DIODE 1SS355TE-17		JR2000	1-216-295-00	SHORT 0 (NEW TYPE)	
D1401	8-719-820-05	DIODE 1SS181-TE85L (FORMER TYPE)				< COIL >	
D1402	8-719-820-05	DIODE 1SS181-TE85L (FORMER TYPE)		L1401	1-500-425-11	FERRITE	0uH
D1403	8-719-200-82	DIODE 11ES2-TB5				(AEP,UK,CIS,AUS,EE,MY,SP,HK)	
D1404	8-719-200-82	DIODE 11ES2-TB5					



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
< TRANSISTOR >				R1230	1-216-037-00	METAL CHIP	330 5% 1/10W
Q419	8-729-027-23	TRANSISTOR RT1P141C-TP-1 (FORMER TYPE)		R1231	1-216-073-00	METAL CHIP	10K 5% 1/10W
Q1201	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L					(FORMER TYPE)
		(FORMER TYPE)		R1232	1-216-049-11	RES-CHIP	1K 5% 1/10W
Q1202	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L		R1233	1-216-049-11	RES-CHIP	1K 5% 1/10W
Q1203	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L		R1234	1-216-049-11	RES-CHIP	1K 5% 1/10W
Q1204	8-729-027-23	TRANSISTOR RT1P141C-TP-1		R1235	1-216-073-00	METAL CHIP	10K 5% 1/10W
				R1236	1-216-065-00	RES-CHIP	4.7K 5% 1/10W
Q1401	8-729-026-68	TRANSISTOR 2SD2525(TP)		R1237	1-216-073-00	METAL CHIP	10K 5% 1/10W
Q1402	8-729-140-93	TRANSISTOR 2SB733-T-34		R1238	1-216-065-00	RES-CHIP	4.7K 5% 1/10W
Q1403	8-729-027-23	TRANSISTOR RT1P141C-TP-1		R1239	1-216-037-00	METAL CHIP	330 5% 1/10W
Q1404	8-729-140-98	TRANSISTOR 2SD773-T-34					
Q1405	8-729-027-43	TRANSISTOR RT1N141C-TP-1		R1240	1-216-037-00	METAL CHIP	330 5% 1/10W
				R1241	1-216-037-00	METAL CHIP	330 5% 1/10W
Q1406	8-729-027-43	TRANSISTOR RT1N141C-TP-1		R1242	1-216-037-00	METAL CHIP	330 5% 1/10W
Q1408	8-729-140-93	TRANSISTOR 2SB733-T-34		R1243	1-216-037-00	METAL CHIP	330 5% 1/10W
Q1409	8-729-141-30	TRANSISTOR 2SC3623ATP-LK (FORMER TYPE)		R1244	1-216-097-00	RES-CHIP	100K 5% 1/10W
Q1410	8-729-141-30	TRANSISTOR 2SC3623ATP-LK (FORMER TYPE)					
Q1411	8-729-141-30	TRANSISTOR 2SC3623ATP-LK (FORMER TYPE)		R1245	1-216-037-00	METAL CHIP	330 5% 1/10W
				R1246	1-216-037-00	METAL CHIP	330 5% 1/10W
Q1412	8-729-141-30	TRANSISTOR 2SC3623ATP-LK (FORMER TYPE)		R1247	1-216-057-00	METAL CHIP	2.2K 5% 1/10W
Q1413	8-729-141-30	TRANSISTOR 2SC3623ATP-LK (FORMER TYPE)		R1248	1-216-037-00	METAL CHIP	330 5% 1/10W
Q1414	8-729-141-30	TRANSISTOR 2SC3623ATP-LK (FORMER TYPE)		R1249	1-216-025-00	RES-CHIP	100 5% 1/10W
							(V444/V555)
< RESISTOR >							
R450	1-216-699-11	METAL CHIP	100K 0.5% 1/10W	R1250	1-216-049-11	RES-CHIP	1K 5% 1/10W
			(FORMER TYPE)				(V444/V555)
R1200	1-216-115-00	METAL CHIP	560K 5% 1/10W	R1251	1-216-049-11	RES-CHIP	1K 5% 1/10W
			(NEW TYPE)				(V444/V555)
R1201	1-216-025-00	RES-CHIP	100 5% 1/10W	R1252	1-216-049-11	RES-CHIP	1K 5% 1/10W
R1202	1-216-025-00	RES-CHIP	100 5% 1/10W	R1253	1-216-073-00	METAL CHIP	10K 5% 1/10W
R1203	1-216-025-00	RES-CHIP	100 5% 1/10W	R1254	1-216-073-00	METAL CHIP	10K 5% 1/10W
							(FORMER TYPE)
R1204	1-216-025-00	RES-CHIP	100 5% 1/10W	R1255	1-216-049-11	RES-CHIP	1K 5% 1/10W
R1205	1-216-065-00	RES-CHIP	4.7K 5% 1/10W				(V444/V555)
R1206	1-216-073-00	METAL CHIP	10K 5% 1/10W	R1256	1-216-057-00	METAL CHIP	2.2K 5% 1/10W
R1207	1-216-025-00	RES-CHIP	100 5% 1/10W	R1257	1-216-037-00	METAL CHIP	330 5% 1/10W
R1208	1-216-049-11	RES-CHIP	1K 5% 1/10W	R1258	1-216-037-00	METAL CHIP	330 5% 1/10W
				R1259	1-216-037-00	METAL CHIP	330 5% 1/10W
R1209	1-216-049-11	RES-CHIP	1K 5% 1/10W				
R1210	1-216-049-11	RES-CHIP	1K 5% 1/10W	R1260	1-216-037-00	METAL CHIP	330 5% 1/10W
R1211	1-216-049-11	RES-CHIP	1K 5% 1/10W	R1261	1-216-057-00	METAL CHIP	2.2K 5% 1/10W
R1212	1-216-049-11	RES-CHIP	1K 5% 1/10W	R1262	1-216-037-00	METAL CHIP	330 5% 1/10W
R1213	1-216-065-00	RES-CHIP	4.7K 5% 1/10W	R1263	1-216-037-00	METAL CHIP	330 5% 1/10W
				R1264	1-216-073-00	METAL CHIP	10K 5% 1/10W
R1214	1-216-065-00	RES-CHIP	4.7K 5% 1/10W				
R1215	1-216-065-00	RES-CHIP	4.7K 5% 1/10W	R1265	1-216-689-11	METAL CHIP	39K 0.5% 1/10W
R1216	1-208-798-11	RES-CHIP	4.7K 2% 1/10W	R1266	1-216-689-11	METAL CHIP	39K 0.5% 1/10W
R1217	1-216-065-00	RES-CHIP	4.7K 5% 1/10W	R1267	1-216-037-00	METAL CHIP	330 5% 1/10W
R1218	1-216-065-00	RES-CHIP	4.7K 5% 1/10W	R1268	1-216-037-00	METAL CHIP	330 5% 1/10W
				R1269	1-216-037-00	METAL CHIP	330 5% 1/10W
R1219	1-216-065-00	RES-CHIP	4.7K 5% 1/10W				
R1220	1-216-073-00	METAL CHIP	10K 5% 1/10W	R1270	1-216-037-00	METAL CHIP	330 5% 1/10W
R1221	1-216-073-00	METAL CHIP	10K 5% 1/10W	R1271	1-216-037-00	METAL CHIP	330 5% 1/10W
R1222	1-216-105-00	RES-CHIP	220K 5% 1/10W	R1272	1-216-037-00	METAL CHIP	330 5% 1/10W
			(FORMER TYPE)	R1273	1-216-037-00	METAL CHIP	330 5% 1/10W
R1223	1-216-073-00	METAL CHIP	10K 5% 1/10W	R1274	1-216-037-00	METAL CHIP	330 5% 1/10W
			(FORMER TYPE)				
R1224	1-216-073-00	METAL CHIP	10K 5% 1/10W	R1275	1-216-037-00	METAL CHIP	330 5% 1/10W
			(FORMER TYPE)	R1276	1-216-037-00	METAL CHIP	330 5% 1/10W
R1225	1-216-073-00	METAL CHIP	10K 5% 1/10W	R1277	1-216-037-00	METAL CHIP	330 5% 1/10W
			(FORMER TYPE)	R1278	1-216-073-00	METAL CHIP	10K 5% 1/10W
R1226	1-216-037-00	METAL CHIP	330 5% 1/10W	R1279	1-216-057-00	METAL CHIP	2.2K 5% 1/10W
R1227	1-216-037-00	METAL CHIP	330 5% 1/10W				(V444/V555)
R1228	1-216-037-00	METAL CHIP	330 5% 1/10W				
				R1280	1-216-037-00	METAL CHIP	330 5% 1/10W
R1229	1-216-037-00	METAL CHIP	330 5% 1/10W	R1281	1-216-037-00	METAL CHIP	330 5% 1/10W
				R1282	1-216-073-00	METAL CHIP	10K 5% 1/10W
							(FORMER TYPE)

## DIGITAL

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R1283	1-216-073-00	METAL CHIP	10K	5%	1/10W	R1410	1-208-782-11	RES-CHIP	1K	2%	1/10W
R1284	1-216-037-00	METAL CHIP	330	5%	1/10W						
R1285	1-216-073-00	METAL CHIP	10K	5%	1/10W	R1411	1-208-790-11	RES-CHIP	2.2K	2%	1/10W
R1301	1-216-065-00	RES-CHIP	4.7K	5%	1/10W	R1412	1-216-673-11	METAL CHIP	8.2K	0.5%	1/10W
R1302	1-216-065-00	RES-CHIP	4.7K	5%	1/10W	R1413	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1303	1-216-037-00	METAL CHIP	330	5%	1/10W	R1414	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1304	1-216-025-00	RES-CHIP	100	5%	1/10W						(FORMER TYPE)
						R1414	1-216-045-00	METAL CHIP	680	5%	1/10W
											(NEW TYPE)
R1305	1-216-025-00	RES-CHIP	100	5%	1/10W						
R1306	1-216-025-00	RES-CHIP	100	5%	1/10W	R1415	1-208-798-11	RES-CHIP	4.7K	2%	1/10W
R1307	1-216-025-00	RES-CHIP	100	5%	1/10W						(FORMER TYPE)
R1308	1-216-065-00	RES-CHIP	4.7K	5%	1/10W	R1416	1-208-782-11	RES-CHIP	1K	2%	1/10W
R1309	1-216-025-00	RES-CHIP	100	5%	1/10W	R1417	1-208-810-11	RES-CHIP	15K	2%	1/10W
						R1418	1-208-798-11	RES-CHIP	4.7K	2%	1/10W
											(FORMER TYPE)
R1310	1-216-025-00	RES-CHIP	100	5%	1/10W	R1419	1-216-673-11	METAL CHIP	8.2K	0.5%	1/10W
R1311	1-216-025-00	RES-CHIP	100	5%	1/10W						
R1312	1-216-065-00	RES-CHIP	4.7K	5%	1/10W	R1420	1-208-798-11	RES-CHIP	4.7K	2%	1/10W
R1313	1-216-065-00	RES-CHIP	4.7K	5%	1/10W						(FORMER TYPE)
R1314	1-216-025-00	RES-CHIP	100	5%	1/10W	△ R1421	1-220-753-11	CEMENTED	6.8	5%	5W
						R1422	1-208-798-11	RES-CHIP	4.7K	2%	1/10W
											(FORMER TYPE)
R1315	1-216-025-00	RES-CHIP	100	5%	1/10W	R1423	1-208-810-11	RES-CHIP	15K	2%	1/10W
R1316	1-216-025-00	RES-CHIP	100	5%	1/10W	R1424	1-208-782-11	RES-CHIP	1K	2%	1/10W
R1317	1-216-025-00	RES-CHIP	100	5%	1/10W						
R1318	1-216-025-00	RES-CHIP	100	5%	1/10W	R1425	1-216-025-00	RES-CHIP	100	5%	1/10W
R1319	1-216-121-00	RES-CHIP	1M	5%	1/10W						(FORMER TYPE)
						R1426	1-208-798-11	RES-CHIP	4.7K	2%	1/10W
											(FORMER TYPE)
R1320	1-216-043-00	RES-CHIP	560	5%	1/10W	R1427	1-216-673-11	METAL CHIP	8.2K	0.5%	1/10W
R1321	1-216-025-00	RES-CHIP	100	5%	1/10W	R1428	1-216-025-00	RES-CHIP	100	5%	1/10W
R1322	1-216-025-00	RES-CHIP	100	5%	1/10W						(FORMER TYPE)
R1323	1-216-025-00	RES-CHIP	100	5%	1/10W	R1429	1-208-798-11	RES-CHIP	4.7K	2%	1/10W
R1328	1-216-066-00	METAL CHIP	5.1K	5%	1/10W						(FORMER TYPE)
R1329	1-216-022-00	METAL CHIP	75	5%	1/10W	R1430	1-208-782-11	RES-CHIP	1K	2%	1/10W
R1330	1-216-066-00	METAL CHIP	5.1K	5%	1/10W	R1431	1-208-810-11	RES-CHIP	15K	2%	1/10W
R1331	1-216-673-11	METAL CHIP	8.2K	0.5%	1/10W	R1432	1-216-025-00	RES-CHIP	100	5%	1/10W
R1332	1-216-037-00	METAL CHIP	330	5%	1/10W						(FORMER TYPE)
R1333	1-216-037-00	METAL CHIP	330	5%	1/10W	R1433	1-216-673-11	METAL CHIP	8.2K	0.5%	1/10W
						R1434	1-208-782-11	RES-CHIP	1K	2%	1/10W
											(FORMER TYPE)
R1334	1-216-025-00	RES-CHIP	100	5%	1/10W						
R1335	1-216-025-00	RES-CHIP	100	5%	1/10W	R1435	1-208-782-11	RES-CHIP	1K	2%	1/10W
R1336	1-216-121-00	RES-CHIP	1M	5%	1/10W						(FORMER TYPE)
R1337	1-216-073-00	METAL CHIP	10K	5%	1/10W	R1436	1-216-089-00	RES-CHIP	47K	5%	1/10W
R1338	1-216-073-00	METAL CHIP	10K	5%	1/10W						(NEW TYPE)
						R1436	1-218-760-11	RES-CHIP	220K	2%	1/10W
											(FORMER TYPE)
R1339	1-216-073-00	METAL CHIP	10K	5%	1/10W	R1437	1-208-810-11	RES-CHIP	15K	2%	1/10W
R1346	1-216-073-00	METAL CHIP	10K	5%	1/10W	R1438	1-208-782-11	RES-CHIP	1K	2%	1/10W
R1352	1-216-025-00	RES-CHIP	100	5%	1/10W						
R1353	1-216-073-00	METAL CHIP	10K	5%	1/10W	R1439	1-216-025-00	RES-CHIP	100	5%	1/10W
R1354	1-216-025-00	RES-CHIP	100	5%	1/10W						(FORMER TYPE)
						R1440	1-208-782-11	RES-CHIP	1K	2%	1/10W
											(FORMER TYPE)
R1355	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	R1441	1-216-673-11	METAL CHIP	8.2K	0.5%	1/10W
R1356	1-216-065-00	RES-CHIP	4.7K	5%	1/10W	R1442	1-216-025-00	RES-CHIP	100	5%	1/10W
R1359	1-216-073-00	METAL CHIP	10K	5%	1/10W						(FORMER TYPE)
R1360	1-216-073-00	METAL CHIP	10K	5%	1/10W	R1443	1-208-782-11	RES-CHIP	1K	2%	1/10W
R1362	1-216-037-00	METAL CHIP	330	5%	1/10W						(FORMER TYPE)
R1401	1-216-049-11	RES-CHIP	1K	5%	1/10W	R1444	1-208-782-11	RES-CHIP	1K	2%	1/10W
R1402	1-216-049-11	RES-CHIP	1K	5%	1/10W	R1445	1-208-810-11	RES-CHIP	15K	2%	1/10W
R1403	1-216-073-00	METAL CHIP	10K	5%	1/10W	R1446	1-216-025-00	RES-CHIP	100	5%	1/10W
R1404	1-208-790-11	RES-CHIP	2.2K	2%	1/10W						(FORMER TYPE)
R1405	1-216-085-00	METAL CHIP	33K	5%	1/10W						
R1406	1-216-084-00	METAL CHIP	30K	5%	1/10W						
R1407	1-216-075-00	METAL CHIP	12K	5%	1/10W						
R1408	1-216-049-11	RES-CHIP	1K	5%	1/10W						
R1409	1-208-810-11	RES-CHIP	15K	2%	1/10W						

The components identified by mark △ or dotted line with mark △ are critical for safety.  
Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le numéro spécifié.

以阴影和 △标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

## DIG-IN/OUT

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R1447	1-216-673-11	METAL CHIP	8.2K	0.5%	1/10W	C1355	1-165-319-11	CERAMIC CHIP	0.1uF	50V	
R1448	1-208-782-11	RES-CHIP	1K	2%	1/10W (FORMER TYPE)	C1356	1-165-319-11	CERAMIC CHIP	0.1uF	50V	
R1449	1-208-782-11	RES-CHIP	1K	2%	1/10W (FORMER TYPE)	C1357	1-165-319-11	CERAMIC CHIP	0.1uF	50V	
R1450	1-216-089-00	RES-CHIP	47K	5%	1/10W (NEW TYPE)	C1358	1-165-319-11	CERAMIC CHIP	0.1uF	50V	
R1450	1-218-760-11	RES-CHIP	220K	2%	1/10W (FORMER TYPE)	C1359	1-165-319-11	CERAMIC CHIP	0.1uF	50V	
R1453	1-208-806-11	RES-CHIP	10K	2%	1/10W	C1360	1-128-858-11	ELECT	22uF	20% 50V	
R1454	1-208-806-11	RES-CHIP	10K	2%	1/10W	C1362	1-163-033-00	CERAMIC CHIP	0.022uF	50V (V444/V555)	
R1455	1-208-770-11	RES-CHIP	330	2%	1/10W	C1363	1-163-217-11	CERAMIC CHIP	1PF	0.25PF 50V	
R1456	1-208-812-11	RES-CHIP	18K	2%	1/10W	C1364	1-163-243-11	CERAMIC CHIP	47PF	5% 50V	
R1457	1-208-806-11	RES-CHIP	10K	2%	1/10W	C1366	1-165-319-11	CERAMIC CHIP	0.1uF	50V	
R1458	1-208-770-11	RES-CHIP	330	2%	1/10W	C1367	1-163-275-11	CERAMIC CHIP	0.001uF	5% 50V	
R1459	1-208-806-11	RES-CHIP	10K	2%	1/10W	C1368	1-165-319-11	CERAMIC CHIP	0.1uF	50V	
R1460	1-208-806-11	RES-CHIP	10K	2%	1/10W	C1369	1-163-033-00	CERAMIC CHIP	0.022uF	50V (V333)	
R1461	1-208-770-11	RES-CHIP	330	2%	1/10W	C1370	1-126-964-11	ELECT	10uF	20% 50V	
R1462	1-208-812-11	RES-CHIP	18K	2%	1/10W			< DIODE >			
R1463	1-208-806-11	RES-CHIP	10K	2%	1/10W	D1301	8-719-988-61	DIODE 1SS355TE-17			
R1464	1-208-770-11	RES-CHIP	330	2%	1/10W	D1321	8-719-801-78	DIODE 1SS184-TE85L			
R1465	1-208-798-11	RES-CHIP	4.7K	2%	1/10W	D1322	8-719-988-61	DIODE 1SS355TE-17			
R1466	1-208-798-11	RES-CHIP	4.7K	2%	1/10W			< FERRITE BEAD >			
R1467	1-208-806-11	RES-CHIP	10K	2%	1/10W	FB1305	1-414-813-11	FERRITE	0uH		
R1468	1-216-025-00	RES-CHIP	100	5%	1/10W	FB1306	1-414-813-11	FERRITE	0uH		
R1469	1-208-770-11	RES-CHIP	330	2%	1/10W			< IC >			
R1470	1-208-770-11	RES-CHIP	330	2%	1/10W	IC1312	8-759-233-64	IC TC74HCU04AF(EL)			
R1471	1-216-025-00	RES-CHIP	100	5%	1/10W (AEP,UK,CIS,AUS,EE,MY,SP,HK)	IC1313	8-759-236-19	IC TC74HC151AF(EL)			
R1472	1-216-057-00	METAL CHIP	2.2K	5%	1/10W (AEP,UK,CIS,AUS,EE,MY,SP,HK)	IC1315	8-749-017-36	IC TORX-179 (DVD/LD OPTICAL IN)			
R1473	1-216-025-00	RES-CHIP	100	5%	1/10W (AEP,UK,CIS,AUS,EE,MY,SP,HK)	IC1316	8-749-017-36	IC TORX-179 (TV/SAT OPTICAL IN)			
R1474	1-216-699-11	METAL CHIP	100K	0.5%	1/10W	IC1317	8-749-017-36	IC TORX-179 (CD OPTICAL IN)			
R1475	1-216-699-11	METAL CHIP	100K	0.5%	1/10W	IC1318	8-749-017-36	IC TORX-179 (MD/DAT OPTICAL IN)			
R1476	1-216-025-00	RES-CHIP	100	5%	1/10W	IC1319	8-749-923-04	IC TOTX178A (MD/DAT OPTICAL OUT)			
R1477	1-216-073-00	METAL CHIP	10K	5%	1/10W	IC1320	8-759-242-76	IC TC7W08F(TE12R)			
R1479	1-216-065-00	RES-CHIP	4.7K	5%	1/10W			< JACK >			
< VIBRATOR >						J1301	1-794-434-11	JACK, PIN 2P (CD, DVD/LD COAXIAL IN)		(V444/V555)	
X1201	1-781-356-21	VIBRATOR, CERAMIC(16MHz)				J1301	1-784-689-11	JACK, PIN 1P(DVD/LD COAXIAL IN)	(V333)		
X1301	1-781-464-21	VIBRATOR, CERAMIC(10MHz)				< RESISTOR >					
X1302	1-781-464-21	VIBRATOR, CERAMIC(10MHz)				R1284	1-216-037-11	RES-CHIP	330	5% 1/10W	
X1303	1-781-465-21	VIBRATOR, CRYSTAL(12.288MHz)				R1324	1-216-115-00	METAL CHIP	560K	5% 1/10W	
X1401	1-781-536-11	VIBRATOR, CRYSTAL(4.33MHz)				R1325	1-216-081-00	METAL CHIP	22K	5% 1/10W (V444/V555)	
(AEP,UK,CIS,AUS,EA,MY,SP,HK)						R1326	1-216-049-11	RES-CHIP	1K	5% 1/10W (V444/V555)	
*****						R1327	1-216-025-00	RES-CHIP	100	5% 1/10W (V444/V555)	
1-678-406-11 DIG-IN/OUT BOARD						R1341	1-216-022-00	METAL CHIP	75	5% 1/10W (V444/V555)	
*****						R1342	1-216-025-00	RES-CHIP	100	5% 1/10W	
< CAPACITOR >						R1343	1-216-025-00	RES-CHIP	100	5% 1/10W	
C1340	1-128-834-11	ELECT	470uF	20%	10V	R1344	1-216-025-00	RES-CHIP	100	5% 1/10W	
C1341	1-165-319-11	CERAMIC CHIP	0.1uF		50V	R1345	1-216-025-00	RES-CHIP	100	5% 1/10W	
C1342	1-163-217-11	CERAMIC CHIP	1PF	0.25PF	50V (V444/V555)						
C1343	1-163-243-11	CERAMIC CHIP	47PF	5%	50V (V444/V555)						
C1354	1-128-858-11	ELECT	22uF	20%	50V (V444/V555)						

DIG-IN/OUT

DISPLAY

Ref. No.	Part No.	Description	Remark		
R1347	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1348	1-216-022-00	METAL CHIP	75	5%	1/10W
R1349	1-216-115-00	METAL CHIP	560K	5%	1/10W
R1350	1-216-081-00	METAL CHIP	22K	5%	1/10W
R1351	1-216-025-00	RES-CHIP	100	5%	1/10W
*****					
A-4473-487-A	DISPLAY BOARD, COMPLETE				
	*****				
	(AEP,UK,CIS,AUS,EE,MY,SP,HK)				
A-4473-514-A	DISPLAY BOARD, COMPLETE(V333)				
	*****				
A-4473-457-A	DISPLAY BOARD, COMPLETE				
	*****				
	(V444/V555:US,CND)				
A-4473-509-A	DISPLAY BOARD, COMPLETE(TW)				
	*****				
A-4473-511-A	DISPLAY BOARD, COMPLETE(CH)				
	*****				
A-4473-490-A	DISPLAY BOARD, COMPLETE(E,PX,EA)				
	*****				
4-228-836-01	HOLDER, FL TUBE				
7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3				
	< CAPACITOR >				
C101	1-104-664-11	ELECT	47uF	20%	16V
C102	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C104	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C105	1-104-905-11	CAPACITOR	0.22F		5.5V
C106	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C107	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C108	1-104-664-11	ELECT	47uF	20%	16V
C109	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C110	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C111	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C112	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C113	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C114	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C115	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C116	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C118	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C120	1-126-964-11	ELECT	10uF	20%	50V
					(NEW TYPE)
C121	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C122	1-164-299-11	CERAMIC CHIP	0.22uF	10%	25V
C123	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C124	1-104-664-11	ELECT	47uF	20%	16V
C125	1-126-926-11	ELECT	1000uF	20%	6.3V
C126	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C127	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C128	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C129	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C130	1-165-319-11	CERAMIC CHIP	0.1uF		50V

Ref. No.	Part No.	Description	Remark		
C131	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C132	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C133	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C134	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C135	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C136	1-104-664-11	ELECT	47uF	20%	16V
C137	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C139	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
< CONNECTOR >					
CNS101	1-784-778-11	CONNECTOR, FFC 17P			
CNS102	1-770-398-11	HOUSING, CONNECTOR(PC BOARD)5P			
CNS104	1-568-826-11	CONNECTOR, FFC 7P(EXCEPT US,CND)			
CNS104	1-784-774-11	CONNECTOR, FFC 13P(US,CND)			
< DIODE >					
D101	8-719-988-61	DIODE 1SS355TE-17			
D102	8-719-820-05	DIODE 1SS181-TE85L			
D103	8-719-988-61	DIODE 1SS355TE-17			
D104	8-719-988-61	DIODE 1SS355TE-17			
D106	8-719-988-61	DIODE 1SS355TE-17			
D107	8-719-988-61	DIODE 1SS355TE-17			
D108	8-719-200-82	DIODE 11ES2-TB5			
D109	8-719-075-59	DIODE SELS5B23CTP15			
(DIGITAL CINEMA SOUND)					
D111	8-719-032-98	DIODE SEL5820A-TP15 (SET UP)			
D112	8-719-032-98	DIODE SEL5820A-TP15 (NAME)			
D113	8-719-032-98	DIODE SEL5820A-TP15 (LEVEL)			
D114	8-719-032-98	DIODE SEL5820A-TP15 (SUR)			
D115	8-719-032-98	DIODE SEL5820A-TP15 (EQ)			
D122	8-719-072-82	DIODE SELU5E20C-STP15			
(MULTI CNANNEL DECODING)					
D124	8-719-075-86	DIODE SID307BRTP19 (IR EMITTER)			
D125	8-719-075-86	DIODE SID307BRTP19 (IR EMITTER)			
D126	8-719-988-61	DIODE 1SS355TE-17			
D127	8-719-988-61	DIODE 1SS355TE-17			
D128	8-719-059-14	DIODE SID313BP-TP19 (IR EMITTER)			
< FLUORESCENT INDICATOR TUBE >					
FL101	1-517-956-11	INDICATOR TUBE, FLUORESCENT			
< IC >					
IC101	8-759-459-85	IC NJL63H400A (IR RECEPTOR)			
IC102	8-759-666-31	IC MB90553ABPF-G-168-BND			
IC103	8-759-589-67	IC BA6208F-E2			
IC104	8-759-666-99	IC TMP87C447U-1F23			
IC105	8-759-235-19	IC TC74HC08AF(EL)			
< JACK >					
J102	1-764-190-21	JACK, PIN 3P(VIDEO 3 INPUT)			
< JUMPER RESISTOR >					
JW101	1-216-296-00	SHORT	0(US,CND,E,PX,EA,TW,CH)		
JW102	1-216-296-00	SHORT	0(US,CND,E,PX,EA,TW,CH)		
JW103	1-216-296-00	SHORT	0(US,CND,E,PX,EA,TW,CH)		
JW104	1-216-296-00	SHORT	0(EXCEPT US,CND)		
JW105	1-216-296-00	SHORT	0(EXCEPT US,CND)		

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
JW106	1-216-296-00	SHORT	0(EXCEPT US,CND) 0 (AEP,UK,CIS,AUS,EE,MY,SP,HK) 0(E,PX,EA) 0(TW) 0(CH)			R116	1-216-073-00	METAL CHIP	10K	5%	(CH) 1/10W
JW107	1-216-296-00	SHORT				R117	1-216-081-00	METAL CHIP	22K	5%	1/10W
JW108	1-216-296-00	SHORT				R118	1-216-081-00	METAL CHIP	22K	5%	1/10W
JW109	1-216-296-00	SHORT				R119	1-216-049-11	RES-CHIP	1K	5%	1/10W
JW110	1-216-296-00	SHORT				R120	1-216-049-11	RES-CHIP	1K	5%	1/10W
JW112	1-216-296-00	SHORT	0(V333) 0 0 0 0			R121	1-216-049-11	RES-CHIP	1K	5%	1/10W
JW251	1-216-296-00	SHORT				R122	1-216-117-00	METAL CHIP	680K	5%	1/10W
JW252	1-216-296-00	SHORT				R123	1-216-049-11	RES-CHIP	1K	5%	1/10W
JW253	1-216-296-00	SHORT				R125	1-216-065-00	RES-CHIP	4.7K	5%	1/10W
JW254	1-216-296-00	SHORT				R126	1-216-073-00	METAL CHIP	10K	5%	1/10W
JW255	1-216-296-00	SHORT	0 0 0 0 0			R127	1-216-073-00	METAL CHIP	10K	5%	1/10W
JW256	1-216-296-00	SHORT				R128	1-216-025-00	RES-CHIP	100	5%	1/10W
JW257	1-216-296-00	SHORT				R129	1-216-049-11	RES-CHIP	1K	5%	(US,CND) 1/10W
JW258	1-216-296-00	SHORT				R130	1-216-025-00	RES-CHIP	100	5%	1/10W
JW259	1-216-296-00	SHORT									(US,CND) 1/10W
JW261	1-216-296-00	SHORT	0 0 0 0 0			R131	1-216-025-00	RES-CHIP	100	5%	(US,CND) 1/10W
JW262	1-216-296-00	SHORT				R132	1-216-065-00	RES-CHIP	4.7K	5%	1/10W
JW263	1-216-295-00	SHORT				R133	1-216-073-00	METAL CHIP	10K	5%	1/10W
JW264	1-216-295-00	SHORT				R134	1-216-025-00	RES-CHIP	100	5%	1/10W
JW265	1-216-296-00	SHORT									(US,CND) 1/10W
JW266	1-216-296-00	SHORT	0 0 0 0 0			R139	1-216-073-00	METAL CHIP	10K	5%	1/10W
JW267	1-216-295-00	SHORT				R140	1-216-037-00	METAL CHIP	330	5%	1/10W
JW268	1-216-296-00	SHORT				R141	1-216-041-00	METAL CHIP	470	5%	1/10W
JW269	1-216-296-00	SHORT									
JW270	1-216-296-00	SHORT									
JW290	1-216-295-00	SHORT	0			R142	1-216-045-00	METAL CHIP	680	5%	1/10W
< TRANSISTOR >						R143	1-216-049-11	RES-CHIP	1K	5%	1/10W
Q102	8-729-027-23	TRANSISTOR RT1P141C-TP-1				R144	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
Q103	8-729-027-43	TRANSISTOR RT1N141C-TP-1				R145	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
Q104	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L				R146	1-216-073-00	METAL CHIP	10K	5%	1/10W
Q105	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L				R147	1-216-049-11	RES-CHIP	1K	5%	1/10W
Q106	8-729-027-43	TRANSISTOR RT1N141C-TP-1				R148	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
						R149	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
Q129	8-729-801-93	TRANSISTOR 2SD1387-34-TP				R150	1-216-065-00	RES-CHIP	4.7K	5%	1/10W
Q130	8-729-801-93	TRANSISTOR 2SD1387-34-TP				R151	1-216-041-00	METAL CHIP	470	5%	1/10W
< RESISTOR >						R152	1-216-045-00	METAL CHIP	680	5%	1/10W
R100	1-216-049-11	RES-CHIP	1K	5%	1/10W	R153	1-216-037-00	METAL CHIP	330	5%	1/10W
(AEP,UK,CIS,AUS,EE,MY,SP,HK)						R154	1-216-041-00	METAL CHIP	470	5%	1/10W
R101	1-216-298-00	METAL CHIP	2.2	5%	1/10W	R155	1-216-045-00	METAL CHIP	680	5%	1/10W
R104	1-216-049-11	RES-CHIP	1K	5%	1/10W	R156	1-216-049-11	RES-CHIP	1K	5%	1/10W
R105	1-216-001-00	METAL CHIP	10	5%	1/10W	R161	1-216-049-11	RES-CHIP	1K	5%	1/10W
R106	1-216-065-00	RES-CHIP	4.7K	5%	1/10W	R162	1-216-049-11	RES-CHIP	1K	5%	1/10W
R107	1-216-065-00	RES-CHIP	4.7K	5%	1/10W	R163	1-216-073-00	METAL CHIP	10K	5%	1/10W
R108	1-216-037-00	METAL CHIP	330	5%	1/10W	R164	1-216-097-00	RES-CHIP	100K	5%	1/10W
(E,PX,EA,TW,CH)						R165	1-216-073-00	METAL CHIP	10K	5%	1/10W
R109	1-216-041-00	METAL CHIP	470	5%	1/10W	R166	1-216-073-00	METAL CHIP	10K	5%	1/10W
(TW,CH)						R167	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R110	1-216-073-00	METAL CHIP	10K	5%	1/10W	R168	1-216-049-11	RES-CHIP	1K	5%	1/10W
R111	1-216-065-00	RES-CHIP	4.7K	5%	1/10W	R169	1-216-049-11	RES-CHIP	1K	5%	1/10W
						R170	1-216-049-11	RES-CHIP	1K	5%	1/10W
R112	1-216-073-00	METAL CHIP	10K	5%	1/10W	R171	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R113	1-216-073-00	METAL CHIP	10K	5%	1/10W	R172	1-216-037-00	METAL CHIP	330	5%	1/10W
R114	1-216-001-00	METAL CHIP	10	5%	1/10W	R173	1-216-097-00	RES-CHIP	100K	5%	1/10W
R115	1-216-045-00	METAL CHIP	680	5%	1/10W	R174	1-216-073-00	METAL CHIP	10K	5%	1/10W
						R175	1-216-041-00	METAL CHIP	470	5%	1/10W
						R176	1-216-053-00	METAL CHIP	1.5K	5%	1/10W



## DISPLAY

## FRONT SP

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R177	1-216-049-11	RES-CHIP 1K 5%	1/10W	S111	1-771-349-21	SWITCH, KEYBOARD AEP: (PTY)	
R178	1-216-037-00	METAL CHIP 330 5%	1/10W	S111	1-771-349-21	SWITCH, KEYBOARD EXCEPT AEP: (SLEEP)	
R179	1-216-045-00	METAL CHIP 680 5%	1/10W	S112	1-771-349-21	SWITCH, KEYBOARD(MEMORY)	
R180	1-216-073-00	METAL CHIP 10K 5%	1/10W	S113	1-771-349-21	SWITCH, KEYBOARD(SET UP)	
				S115	1-771-349-21	SWITCH, KEYBOARD(2ND AV)	
R181	1-216-065-00	RES-CHIP 4.7K 5%	1/10W	S116	1-771-349-21	SWITCH, KEYBOARD(ANALOG DIRECT)	
R182	1-216-073-00	METAL CHIP 10K 5%	1/10W	S117	1-771-349-21	SWITCH, KEYBOARD(2CH)	
R183	1-216-049-11	RES-CHIP 1K 5%	1/10W	S118	1-771-349-21	SWITCH, KEYBOARD(LEVEL)	
R184	1-216-073-00	METAL CHIP 10K 5%	1/10W	S119	1-771-349-21	SWITCH, KEYBOARD(NAME)	
R185	1-216-073-00	METAL CHIP 10K 5%	1/10W	S120	1-771-349-21	SWITCH, KEYBOARD(EQ)	
R186	1-216-073-00	METAL CHIP 10K 5%	1/10W	S121	1-771-349-21	SWITCH, KEYBOARD( < )	
R187	1-216-065-00	RES-CHIP 4.7K 5%	1/10W	S122	1-771-349-21	SWITCH, KEYBOARD(A.F.D.)	
R189	1-216-065-00	RES-CHIP 4.7K 5%	1/10W	S123	1-771-349-21	SWITCH, KEYBOARD(CINEMA STUDIO EX)	
R191	1-216-065-00	RES-CHIP 4.7K 5%	1/10W	S124	1-771-349-21	SWITCH, KEYBOARD(MODE - )	
R192	1-216-065-00	RES-CHIP 4.7K 5%	1/10W	S125	1-771-349-21	SWITCH, KEYBOARD(OSD ON/OFF)	
△ R193	1-249-385-11	CARBON 2.2 5%	1/6W F	S128	1-771-349-21	SWITCH, KEYBOARD(ENTER)	
R194	1-216-037-00	METAL CHIP 330 5%	1/10W	S129	1-771-349-21	SWITCH, KEYBOARD(MODE + )	
R195	1-216-037-00	METAL CHIP 330 5%	1/10W	S130	1-771-349-21	SWITCH, KEYBOARD(SUR)	
R196	1-216-025-00	RES-CHIP 100 5%	1/10W	S131	1-771-349-21	SWITCH, KEYBOARD( > )	
R197	1-216-025-00	RES-CHIP 100 5%	1/10W	S132	1-771-349-21	SWITCH, KEYBOARD (TUNING + )	
R198	1-216-025-00	RES-CHIP 100 5%	1/10W	S133	1-771-349-21	SWITCH, KEYBOARD(RESET TUNING + )	
△ R199	1-249-385-11	CARBON 2.2 5%	1/6W F	S134	1-771-349-21	SWITCH, KEYBOARD(5.1CH INPUT)	
R1101	1-216-073-00	METAL CHIP 10K 5%	1/10W			< SWITCH >	
R1102	1-216-073-00	METAL CHIP 10K 5%	1/10W				
R1103	1-216-073-00	METAL CHIP 10K 5%	1/10W				
R1104	1-216-049-11	RES-CHIP 1K 5%	1/10W	SW102	1-762-268-11	SWITCH, ROTARY(SPEAKER)	
R1105	1-216-037-00	METAL CHIP 330 5%	1/10W			< VIBRATOR >	
R1106	1-216-073-00	METAL CHIP 10K 5%	1/10W				
R1107	1-216-065-00	RES-CHIP 4.7K 5%	1/10W	X101	1-781-356-21	VIBRATOR, CERAMIC (16 MHz)	
R1108	1-216-073-00	METAL CHIP 10K 5%	1/10W	X102	1-767-938-21	VIBRATOR, CERAMIC (7.28MHz)	
				*****			
R1109	1-216-073-00	METAL CHIP 10K 5%	1/10W		1-677-226-11	FRONT SP BOARD	
R1110	1-216-073-00	METAL CHIP 10K 5%	1/10W			*****	
R1111	1-216-073-00	METAL CHIP 10K 5%	1/10W			< CAPACITOR >	
R1112	1-216-073-00	METAL CHIP 10K 5%	1/10W				
R1113	1-216-073-00	METAL CHIP 10K 5%	1/10W				
R1114	1-216-049-11	RES-CHIP 1K 5%	1/10W	C511	1-136-357-11	MYLAR 680PF 5% 50V	
R1115	1-216-049-11	RES-CHIP 1K 5%	1/10W			(EXCEPT US,CND,E,PX,EA) (NEW TYPE)	
R1116	1-216-049-11	RES-CHIP 1K 5%	1/10W	C511	1-137-503-11	MYLAR 0.0001uF 5% 50V	
		(AEP,UK,CIS,AUS,EE,MY,SP,HK)				(EXCEPT US,CND,E,PX,EA) (FORMER TYPE)	
R1117	1-216-049-11	RES-CHIP 1K 5%	1/10W	C512	1-136-357-11	MYLAR 680PF 5% 50V	
		(AEP,UK,CIS,AUS,EE,MY,SP,HK)				(EXCEPT US,CND,E,PX,EA) (NEW TYPE)	
R1119	1-216-097-00	RES-CHIP 100K 5%	1/10	C512	1-137-503-11	MYLAR 0.0001uF 5% 50V	
						(EXCEPT US,CND,E,PX,EA) (FORMER TYPE)	
R1120	1-216-049-11	RES-CHIP 1K 5%	1/10W	C513	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
						(FORMER TYPE)	
		< VARIABLE RESISTOR >					
RV102	1-418-921-11	ENCODER, ROTARY(JOG DIAL)		C513	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
						(US,CND,E,PX,EA)	
		< SWITCH >		C513	1-163-259-91	CERAMIC CHIP 220PF 5% 50V	
						(EXCEPT US,CND,E,PX,EA) (NEW TYPE)	
S101	1-771-349-21	SWITCH, KEYBOARD(I/⏻)		C561	1-136-357-11	MYLAR 680PF 5% 50V	
S103	1-771-349-21	SWITCH, KEYBOARD(EQ ON/OFF)				(EXCEPT US,CND,E,PX,EA) (NEW TYPE)	
S104	1-771-349-21	SWITCH, KEYBOARD AEP: (RDS/E ON)		C561	1-137-503-11	MYLAR 0.0001uF 5% 50V	
S104	1-771-349-21	SWITCH, KEYBOARD EXCEPT AEP: (DIMMER)				(EXCEPT US,CND,E,PX,EA) (FORMER TYPE)	
S105	1-771-349-21	SWITCH, KEYBOARD(FM MODE)		C562	1-137-503-11	MYLAR 0.0001uF 5% 50V	
						(EXCEPT US,CND,E,PX,EA) (FORMER TYPE)	
S106	1-771-349-21	SWITCH, KEYBOARD (TUNING - )		C562	1-136-357-11	MYLAR 680PF 5% 50V	
S107	1-771-349-21	SWITCH, KEYBOARD(RESET TUNING - )				(EXCEPT US,CND,E,PX,EA) (NEW TYPE)	
S108	1-771-349-21	SWITCH, KEYBOARD(FM/AM)		C563	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
S109	1-771-349-21	SWITCH, KEYBOARD(DISPLAY)				(FORMER TYPE)	

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

以阴影和 △ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

FRONT SP						F-VIDEO			HP	INPUT	
Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C563	1-163-117-00	CERAMIC CHIP 100PF 5% 50V (EXCEPT US,CND,E,PX,EA) (NEW TYPE)				C103	1-165-319-11	CERAMIC CHIP 0.1uF 50V			
C563	1-163-259-91	CERAMIC CHIP 220PF 5% 50V (EXCEPT US,CND,E,PX,EA) (NEW TYPE)				C117	1-165-319-11	CERAMIC CHIP 0.1uF 50V			
< CONNECTOR >						C138	1-163-251-11	CERAMIC CHIP 100PF 5% 50V			
						C188	1-163-251-11	CERAMIC CHIP 100PF 5% 50V			
< CONNECTOR >											
* CNP506	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P				CNP103	1-784-923-11	PIN, CONNECTOR 7P			
< DIODE >						< RESISTOR >					
D597	8-719-988-61	DIODE 1SS355TE-17				R135	1-216-022-00	METAL CHIP 75 5% 1/10W			
D598	8-719-988-61	DIODE 1SS355TE-17				R136	1-216-022-00	METAL CHIP 75 5% 1/10W			
D599	8-719-988-61	DIODE 1SS355TE-17				R137	1-216-022-00	METAL CHIP 75 5% 1/10W			
< COIL >						R138	1-216-049-11	RES-CHIP 1K 5% 1/10W			
L501	1-419-666-11	COIL, AIR-CORE				R188	1-216-049-11	RES-CHIP 1K 5% 1/10W			
L551	1-419-666-11	COIL, AIR-CORE				*****					
< TRANSISTOR >						1-677-219-11	HP BOARD				
						*****					
Q597	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L				< CONNECTOR >					
Q598	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L				CNP101	1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P			
Q599	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L				* CNP104	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P			
< RESISTOR >						< JACK >					
R510	1-215-868-31	METAL OXIDE 680 5% 1W				J101	1-750-735-11	JACK (LARGE TYPE)(PHONES)			
△ R511	1-249-389-11	CARBON 4.7 5% 1/4W F				*****					
△ R512	1-249-393-11	CARBON 10 5% 1/4W F				A-4473-459-A	INPUT BOARD, COMPLETE(US,CND,E,PX,EA)				
(EXCEPT US,CND,E,PX,EA)						*****					
△ R513	1-249-393-11	CARBON 10 5% 1/4W F				A-4473-488-A	INPUT BOARD, COMPLETE				
(EXCEPT US,CND,E,PX,EA)						*****					
R560	1-215-868-31	METAL OXIDE 680 5% 1W				(EXCEPT US,CND,E,PX,EA)					
△ R561	1-249-389-11	CARBON 4.7 5% 1/4W F				< CAPACITOR >					
△ R562	1-249-393-11	CARBON 10 5% 1/4W F				C301	1-119-821-11	ELECT MELF 2.2uF 20% 50V			
(EXCEPT US,CND,E,PX,EA)						C302	1-163-253-11	CERAMIC CHIP 120PF 5% 50V			
△ R563	1-249-393-11	CARBON 10 5% 1/4W F				C303	1-128-862-11	ELECT 220uF 20% 50V			
(EXCEPT US,CND,E,PX,EA)						C304	1-125-896-91	MYLAR 0.0091uF 5% 50V			
△ R581	1-249-393-11	CARBON 10 5% 1/4W F				C305	1-136-159-00	MYLAR 0.033uF 5% 50V			
R582	1-216-073-00	METAL CHIP 10K 5% 1/10W				C306	1-119-821-11	ELECT MELF 2.2uF 20% 50V			
R583	1-216-065-00	RES-CHIP 4.7K 5% 1/10W				C307	1-164-690-11	CERAMIC CHIP 2200PF 5% 50V			
△ R584	1-249-393-11	CARBON 10 5% 1/4W F				C308	1-163-259-91	CERAMIC CHIP 220PF 5% 50V			
R585	1-216-073-00	METAL CHIP 10K 5% 1/10W				C309	1-163-033-00	CERAMIC CHIP 0.022uF 50V			
R586	1-216-065-00	RES-CHIP 4.7K 5% 1/10W				C312	1-137-503-11	MYLAR 0.0001uF 5% 50V			
△ R587	1-249-393-11	CARBON 10 5% 1/4W F				(EXCEPT US,CND,E,PX,EA)					
R588	1-216-073-00	METAL CHIP 10K 5% 1/10W				C313	1-137-503-11	MYLAR 0.0001uF 5% 50V			
R589	1-216-065-00	RES-CHIP 4.7K 5% 1/10W				(EXCEPT US,CND,E,PX,EA)					
< RELAY >						C314	1-137-503-11	MYLAR 0.0001uF 5% 50V			
RY502	1-515-920-11	RELAY (24V)				(EXCEPT US,CND,E,PX,EA)					
RY503	1-515-920-11	RELAY (24V)				C315	1-137-503-11	MYLAR 0.0001uF 5% 50V			
RY504	1-515-793-11	RELAY (24V)				(EXCEPT US,CND,E,PX,EA)					
< TERMINAL >						C316	1-137-503-11	MYLAR 0.0001uF 5% 50V			
* TM501	1-694-454-21	TERMINAL BOARD (SP) 8P (FRONT SP)				(EXCEPT US,CND,E,PX,EA)					
*****						C317	1-137-503-11	MYLAR 0.0001uF 5% 50V			
						(EXCEPT US,CND,E,PX,EA)					
1-677-253-11 F-VIDEO BOARD						C318	1-137-503-11	MYLAR 0.0001uF 5% 50V			
*****						(EXCEPT US,CND,E,PX,EA)					
< CAPACITOR >						C319	1-128-858-11	ELECT 22uF 20% 50V			
						C320	1-119-823-11	ELECT 4.7uF 20% 50V			

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

以阴影和 △ 标志来识别的零部件，在安全方面具有关键性。因此只能以规定号码的零部件来更换。

# INPUT

Ref. No.	Part No.	Description	Remark		
C330	1-163-033-00	CERAMIC CHIP	0.022uF	50V	
C331	1-163-033-00	CERAMIC CHIP	0.022uF	50V	
C332	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C333	1-163-033-00	CERAMIC CHIP	0.022uF		50V
C334	1-163-033-00	CERAMIC CHIP	0.022uF		50V
C335	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C336	1-163-033-00	CERAMIC CHIP	0.022uF		50V
C337	1-163-033-00	CERAMIC CHIP	0.022uF		50V
C338	1-163-033-00	CERAMIC CHIP	0.022uF		50V
C339	1-163-033-00	CERAMIC CHIP	0.022uF		50V
C340	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C341	1-163-033-00	CERAMIC CHIP	0.022uF		50V
C342	1-163-033-00	CERAMIC CHIP	0.022uF		50V
C349	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C351	1-119-821-11	ELECT MELF	2.2uF	20%	50V
C352	1-163-253-11	CERAMIC CHIP	120PF	5%	50V
C353	1-128-862-11	ELECT	220uF	20%	50V
C354	1-125-896-91	MYLAR	0.0091uF	5%	50V
C355	1-136-159-00	MYLAR	0.033uF	5%	50V
C356	1-119-821-11	ELECT MELF	2.2uF	20%	50V
C357	1-164-690-11	CERAMIC CHIP	2200PF	5%	50V
C358	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C359	1-163-033-00	CERAMIC CHIP	0.022uF		50V
C360	1-164-690-11	CERAMIC CHIP	2200PF	5%	50V
C362	1-137-503-11	MYLAR	0.0001uF	5%	50V
		(EXCEPT US,CND,E,PX,EA)			
C363	1-137-503-11	MYLAR	0.0001uF	5%	50V
		(EXCEPT US,CND,E,PX,EA)			
C364	1-137-503-11	MYLAR	0.0001uF	5%	50V
		(EXCEPT US,CND,E,PX,EA)			
C365	1-137-503-11	MYLAR	0.0001uF	5%	50V
		(EXCEPT US,CND,E,PX,EA)			
C366	1-137-503-11	MYLAR	0.0001uF	5%	50V
		(EXCEPT US,CND,E,PX,EA)			
C367	1-137-503-11	MYLAR	0.0001uF	5%	50V
		(EXCEPT US,CND,E,PX,EA)			
C368	1-137-503-11	MYLAR	0.0001uF	5%	50V
		(EXCEPT US,CND,E,PX,EA)			
C369	1-128-858-11	ELECT	22uF	20%	50V
C370	1-119-823-11	ELECT	4.7uF	20%	50V
C401	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C402	1-119-820-11	ELECT	1uF	20%	50V
C403	1-128-858-11	ELECT	22uF	20%	50V
C404	1-128-858-11	ELECT	22uF	20%	50V
C405	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C406	1-119-820-11	ELECT	1uF	20%	50V
C407	1-128-858-11	ELECT	22uF	20%	50V
C408	1-128-858-11	ELECT	22uF	20%	50V
C409	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C410	1-119-820-11	ELECT	1uF	20%	50V
C411	1-128-858-11	ELECT	22uF	20%	50V
C412	1-128-858-11	ELECT	22uF	20%	50V
C413	1-128-858-11	ELECT	22uF	20%	50V
C414	1-128-858-11	ELECT	22uF	20%	50V
C415	1-128-858-11	ELECT	22uF	20%	50V
C416	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C420	1-163-033-00	CERAMIC CHIP	0.022uF		50V

Ref. No.	Part No.	Description	Remark		
C421	1-163-033-00	CERAMIC CHIP	0.022uF	50V	
C422	1-165-319-11	CERAMIC CHIP	0.1uF	50V	
C423	1-165-319-11	CERAMIC CHIP	0.1uF	50V	
C424	1-165-319-11	CERAMIC CHIP	0.1uF	50V	
C425	1-165-319-11	CERAMIC CHIP	0.1uF	50V	
C430	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C431	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C433	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C451	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C452	1-119-820-11	ELECT	1uF	20%	50V
C453	1-128-858-11	ELECT	22uF	20%	50V
C454	1-128-858-11	ELECT	22uF	20%	50V
C455	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C456	1-119-820-11	ELECT	1uF	20%	50V
C457	1-128-858-11	ELECT	22uF	20%	50V
C459	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C460	1-119-820-11	ELECT	1uF	20%	50V
C461	1-128-858-11	ELECT	22uF	20%	50V
C462	1-128-858-11	ELECT	22uF	20%	50V
C463	1-128-858-11	ELECT	22uF	20%	50V
C464	1-128-858-11	ELECT	22uF	20%	50V
C465	1-128-858-11	ELECT	22uF	20%	50V
C480	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C481	1-136-173-00	MYLAR	0.47uF	5%	50V
C482	1-136-173-00	MYLAR	0.47uF	5%	50V
C483	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C491	1-127-726-11	ELECT MELF	470uF	20%	25V
C492	1-127-726-11	ELECT MELF	470uF	20%	25V
< CONNECTOR >					
CNP301	1-784-923-11	PIN, CONNECTOR 7P			
CNP402	1-784-925-11	PIN, CONNECTOR 10P			
CNP408	1-784-921-11	PIN, CONNECTOR 4P			
CNS301	1-784-778-11	CONNECTOR, FFC 17P			
CNS302	1-573-834-11	CONNECTOR, BOARD TO BOARD 20P			
CNS307	1-573-834-11	CONNECTOR, BOARD TO BOARD 20P			
< DIODE >					
D300	8-719-988-61	DIODE 1SS355TE-17			
D401	8-719-820-05	DIODE 1SS181-TE85L			
D402	8-719-988-61	DIODE 1SS355TE-17			
D403	8-719-988-61	DIODE 1SS355TE-17			
D404	8-719-820-05	DIODE 1SS181-TE85L			
< TERMINAL >					
* EB301	1-537-738-21	TERMINAL, EARTH			
< IC >					
IC301	8-759-099-06	IC M5218AFP-TE1			
IC302	8-759-655-96	IC TC9163AF			
IC303	8-759-677-19	IC TC9273F-013(EL)			
IC304	8-759-099-06	IC M5218AFP-TE1			
IC305	8-759-655-97	IC TC9162AF			
IC306	8-759-590-10	IC TC9273F-012(EL)			
IC401	8-759-231-59	IC M5F7815L			

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
IC402	8-759-245-87	IC M5F7915L				R323	1-208-854-11	RES-CHIP	1M	2%	1/10W
IC403	8-759-184-02	IC M5218AL-22				R334	1-208-806-11	RES-CHIP	10K	2%	1/10W
IC404	8-759-184-02	IC M5218AL-22				R335	1-208-798-11	RES-CHIP	4.7K	2%	1/10W
						△ R336	1-249-393-11	CARBON	10	5%	1/4W F
IC405	8-759-184-02	IC M5218AL-22				R352	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
IC406	8-759-184-02	IC M5218AL-22									
IC407	8-759-184-02	IC M5218AL-22				R353	1-216-697-11	METAL CHIP	82K	0.5%	1/10W
IC408	8-759-184-02	IC M5218AL-22				R354	1-208-764-11	RES-CHIP	180	2%	1/10W
IC409	8-759-658-33	IC TC9482F(EL)				R355	1-216-673-11	METAL CHIP	8.2K	0.5%	1/10W
						R356	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
IC410	8-759-099-06	IC M5218AFP-TE1				R357	1-216-627-11	METAL CHIP	100	0.5%	1/10W
IC411	8-759-099-06	IC M5218AFP-TE1									
IC412	8-759-099-06	IC M5218AFP-TE1				R358	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
		< JACK >				R359	1-208-774-11	RES-CHIP	470	2%	1/10W
J301	1-778-517-11	JACK, PIN 6P(PHONO, CD)				R362	1-208-798-11	RES-CHIP	4.7K	2%	1/10W
J302	1-784-934-11	JACK, PIN 4P(DAT/MD)									(EXCEPT US,CND,E,PX,EA)
J303	1-784-934-11	JACK, PIN 4P(TAPE)				R362	1-208-782-11	RES-CHIP	1K	2%	1/10W
											(US,CND,E,PX,EA)
		< TRANSISTOR >				R363	1-208-782-11	RES-CHIP	1K	2%	1/10W
Q301	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L				R364	1-208-782-11	RES-CHIP	1K	2%	1/10W
Q401	8-729-107-45	TRANSISTOR 2SC3624A-T1L15L16				R365	1-208-782-11	RES-CHIP	1K	2%	1/10W
Q403	8-729-107-45	TRANSISTOR 2SC3624A-T1L15L16				R366	1-208-782-11	RES-CHIP	1K	2%	1/10W
Q405	8-729-107-45	TRANSISTOR 2SC3624A-T1L15L16				R367	1-208-782-11	RES-CHIP	1K	2%	1/10W
Q411	8-729-027-43	TRANSISTOR RT1N141C-TP-1				R368	1-208-782-11	RES-CHIP	1K	2%	1/10W
Q412	8-729-027-23	TRANSISTOR RT1P141C-TP-1				R369	1-208-798-11	RES-CHIP	4.7K	2%	1/10W
Q413	8-729-027-43	TRANSISTOR RT1N141C-TP-1				R370	1-216-627-11	METAL CHIP	100	0.5%	1/10W
Q414	8-729-027-23	TRANSISTOR RT1P141C-TP-1				R371	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
Q415	8-729-027-43	TRANSISTOR RT1N141C-TP-1				R372	1-208-854-11	RES-CHIP	1M	2%	1/10W
Q416	8-729-027-23	TRANSISTOR RT1P141C-TP-1				R373	1-208-854-11	RES-CHIP	1M	2%	1/10W
Q417	8-729-027-43	TRANSISTOR RT1N141C-TP-1				R401	1-208-782-11	RES-CHIP	1K	2%	1/10W
Q418	8-729-027-23	TRANSISTOR RT1P141C-TP-1				R402	1-208-790-11	RES-CHIP	2.2K	2%	1/10W
Q451	8-729-107-45	TRANSISTOR 2SC3624A-T1L15L16				R403	1-208-798-11	RES-CHIP	4.7K	2%	1/10W
Q453	8-729-107-45	TRANSISTOR 2SC3624A-T1L15L16				R404	1-216-671-11	METAL CHIP	6.8K	0.5%	1/10W
Q455	8-729-107-45	TRANSISTOR 2SC3624A-T1L15L16				R405	1-218-764-11	RES-CHIP	330K	2%	1/10W
		< RESISTOR >									
R302	1-216-699-11	METAL CHIP	100K	0.5%	1/10W	R406	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R303	1-216-697-11	METAL CHIP	82K	0.5%	1/10W	R407	1-208-806-11	RES-CHIP	10K	2%	1/10W
R304	1-208-764-11	RES-CHIP	180	2%	1/10W	R408	1-208-806-11	RES-CHIP	10K	2%	1/10W
R305	1-216-673-11	METAL CHIP	8.2K	0.5%	1/10W	R409	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R306	1-216-699-11	METAL CHIP	100K	0.5%	1/10W	R412	1-208-782-11	RES-CHIP	1K	2%	1/10W
R307	1-216-627-11	METAL CHIP	100	0.5%	1/10W	R413	1-208-790-11	RES-CHIP	2.2K	2%	1/10W
R308	1-216-699-11	METAL CHIP	100K	0.5%	1/10W	R414	1-208-798-11	RES-CHIP	4.7K	2%	1/10W
R309	1-208-774-11	RES-CHIP	470	2%	1/10W	R415	1-216-671-11	METAL CHIP	6.8K	0.5%	1/10W
R312	1-208-798-11	RES-CHIP	4.7K	2%	1/10W	R416	1-218-764-11	RES-CHIP	330K	2%	1/10W
						R417	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R312	1-208-782-11	RES-CHIP	1K	2%	1/10W	R418	1-208-806-11	RES-CHIP	10K	2%	1/10W
					(EXCEPT US,CND,E,PX,EA)	R419	1-208-806-11	RES-CHIP	10K	2%	1/10W
					(US,CND,E,PX,EA)	R420	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R313	1-208-782-11	RES-CHIP	1K	2%	1/10W	R423	1-208-782-11	RES-CHIP	1K	2%	1/10W
R314	1-208-782-11	RES-CHIP	1K	2%	1/10W	R424	1-208-790-11	RES-CHIP	2.2K	2%	1/10W
R315	1-208-782-11	RES-CHIP	1K	2%	1/10W						
R316	1-208-782-11	RES-CHIP	1K	2%	1/10W	R425	1-208-798-11	RES-CHIP	4.7K	2%	1/10W
R317	1-208-782-11	RES-CHIP	1K	2%	1/10W	R426	1-216-671-11	METAL CHIP	6.8K	0.5%	1/10W
						R427	1-218-764-11	RES-CHIP	330K	2%	1/10W
R318	1-208-782-11	RES-CHIP	1K	2%	1/10W	R428	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R319	1-208-798-11	RES-CHIP	4.7K	2%	1/10W	R429	1-208-806-11	RES-CHIP	10K	2%	1/10W
R320	1-216-627-11	METAL CHIP	100	0.5%	1/10W						
R321	1-216-699-11	METAL CHIP	100K	0.5%	1/10W	R430	1-208-806-11	RES-CHIP	10K	2%	1/10W
R322	1-208-854-11	RES-CHIP	1M	2%	1/10W	R431	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
						R434	1-208-782-11	RES-CHIP	1K	2%	1/10W
						R435	1-218-760-11	RES-CHIP	220K	2%	1/10W
						R436	1-216-661-11	METAL CHIP	2.7K	0.5%	1/10W

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以阴影和 △ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

INPUT

M-BUS

POWER-AMP

Ref. No.	Part No.	Description			Remark
R437	1-208-814-11	RES-CHIP	22K	2%	1/10W
R438	1-208-782-11	RES-CHIP	1K	2%	1/10W
R439	1-218-760-11	RES-CHIP	220K	2%	1/10W
R440	1-216-661-11	METAL CHIP	2.7K	0.5%	1/10W
R441	1-208-814-11	RES-CHIP	22K	2%	1/10W
R442	1-208-782-11	RES-CHIP	1K	2%	1/10W
R443	1-218-760-11	RES-CHIP	220K	2%	1/10W
R444	1-216-661-11	METAL CHIP	2.7K	0.5%	1/10W
R445	1-208-814-11	RES-CHIP	22K	2%	1/10W
R446	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R447	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R448	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R449	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R451	1-208-782-11	RES-CHIP	1K	2%	1/10W
R452	1-208-790-11	RES-CHIP	2.2K	2%	1/10W
R453	1-208-798-11	RES-CHIP	4.7K	2%	1/10W
R454	1-216-671-11	METAL CHIP	6.8K	0.5%	1/10W
R455	1-218-764-11	RES-CHIP	330K	2%	1/10W
R456	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R457	1-208-806-11	RES-CHIP	10K	2%	1/10W
R458	1-208-806-11	RES-CHIP	10K	2%	1/10W
R459	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R462	1-208-782-11	RES-CHIP	1K	2%	1/10W
R463	1-208-445-11	RES-CHIP	2.2K	2%	1/10W
R464	1-208-798-11	RES-CHIP	4.7K	2%	1/10W
R465	1-216-673-11	METAL CHIP	8.2K	0.5%	1/10W
R466	1-218-764-11	RES-CHIP	330K	2%	1/10W
R467	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R473	1-208-782-11	RES-CHIP	1K	2%	1/10W
R474	1-208-790-11	RES-CHIP	2.2K	2%	1/10W
R475	1-208-798-11	RES-CHIP	4.7K	2%	1/10W
R476	1-216-671-11	METAL CHIP	6.8K	0.5%	1/10W
R477	1-218-764-11	RES-CHIP	330K	2%	1/10W
R478	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R479	1-208-806-11	RES-CHIP	10K	2%	1/10W
R480	1-208-806-11	RES-CHIP	10K	2%	1/10W
R481	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R484	1-208-782-11	RES-CHIP	1K	2%	1/10W
R485	1-218-760-11	RES-CHIP	220K	2%	1/10W
R486	1-216-661-11	METAL CHIP	2.7K	0.5%	1/10W
R487	1-208-814-11	RES-CHIP	22K	2%	1/10W
R488	1-208-782-11	RES-CHIP	1K	2%	1/10W
R489	1-218-760-11	RES-CHIP	220K	2%	1/10W
R490	1-208-784-11	RES-CHIP	1.2K	2%	1/10W
R491	1-208-814-11	RES-CHIP	22K	2%	1/10W
R492	1-208-782-11	RES-CHIP	1K	2%	1/10W
R493	1-218-760-11	RES-CHIP	220K	2%	1/10W
R494	1-216-661-11	METAL CHIP	2.7K	0.5%	1/10W
R495	1-208-814-11	RES-CHIP	22K	2%	1/10W
< RELAY >					
RY300	1-515-793-11	RELAY			
*****					
	1-677-224-11	M-BUS BOARD(US,CND)			
*****					

Ref. No.	Part No.	Description	Remark		
< CAPACITOR >					
C215	1-126-963-11	ELECT	4.7uF	20%	50V
C216	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C232	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C233	1-164-690-11	CERAMIC CHIP	0.0022uF	5%	50V
C235	1-164-690-11	CERAMIC CHIP	0.0022uF	5%	50V
< CONNECTOR >					
CNS204	1-568-826-11	CONNECTOR, FFC 7P			
< IC >					
IC200	8-759-470-63	IC NJM2145M-TE2			
< JACK >					
J203	1-563-330-11	JACK(MONITOR CTRL S IN)			
J204	1-563-330-11	JACK(VIDEO1 CTRL S OUT)			
J205	1-563-330-11	JACK(DVD/LD CTRL S OUT)			
J206	1-563-330-11	JACK(TV/SAT STATUS IN)			
< TRANSISTOR >					
Q200	8-729-027-43	TRANSISTOR RT1N141C-TP-1			
Q201	8-729-027-23	TRANSISTOR RT1P141C-TP-1			
< RESISTOR >					
R208	1-216-049-11	RES-CHIP	1K	5%	1/10W
R209	1-216-049-11	RES-CHIP	1K	5%	1/10W
R210	1-216-049-11	RES-CHIP	1K	5%	1/10W
R211	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2002	1-216-073-00	RES-CHIP	10K	5%	1/10W
*****					
A-4473-455-A		POWER-AMP BOARD, COMPLETE			
*****					
7-685-646-79		SCREW +BVTP 3X8 TYPE2 IT-3			
< CAPACITOR >					
C501	1-128-858-11	ELECT	22uF	20%	50V
C502	1-137-503-11	MYLAR	0.0001uF	5%	50V
C503	1-102-233-00	CERAMIC	33PF	10%	500V
C504	1-107-591-11	CERAMIC	12PF	5%	500V
C505	1-128-832-11	ELECT	220uF	20%	10V
C507	1-128-579-11	ELECT	2.2uF	20%	100V (NEW TYPE)
C520	1-128-860-11	ELECT	47uF	20%	16V
C523	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C524	1-137-372-11	MYLAR	0.022uF	5%	50V
C539	1-137-503-11	MYLAR	0.0001uF	5%	50V
C541	1-128-858-11	ELECT	22uF	20%	50V
C542	1-126-925-11	ELECT	470uF	20%	10V
C549	1-107-580-11	CERAMIC	1PF	0.25PF	500V
C551	1-128-858-11	ELECT	22uF	20%	50V
C552	1-137-503-11	MYLAR	0.0001uF	5%	50V
C553	1-102-233-00	CERAMIC	33PF	10%	500V
C554	1-107-591-11	CERAMIC	12PF	5%	500V
C555	1-128-832-11	ELECT	220uF	20%	10V
C570	1-128-860-11	ELECT	47uF	20%	16V
C573	1-163-125-00	CERAMIC CHIP	220PF	5%	50V



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## POWER-AMP

Ref. No.	Part No.	Description	Remark		
Q547	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA			
Q548	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
Q549	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA			
Q558	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA			
Q559	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA			
Q608	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA			
Q609	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA			
Q611	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
Q661	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
Q708	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA			
Q709	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA			
Q711	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
Q758	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA			
Q759	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA			
< RESISTOR >					
R501	1-208-782-11	RES-CHIP	1K	2%	1/10W
R502	1-208-826-11	RES-CHIP	68K	2%	1/10W
R503	1-249-967-11	CARBON	68K	5%	1/4W
R504	1-259-179-31	CARBON	3.3K	5%	1/4W
R505	1-216-089-00	RES-CHIP	47K	5%	1/10W
R506	1-208-435-61	RES-CHIP	820	2%	1/10W
					(FORMER TYPE)
R507	1-208-784-11	RES-CHIP	1.2K	2%	1/10W
					(FORMER TYPE)
R509	1-216-295-00	SHORT	0		
R521	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
					(FORMER TYPE)
R521	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
					(NEW TYPE)
R522	1-216-077-00	RES-CHIP	15K	5%	1/10W
R523	1-216-093-00	RES-CHIP	68K	5%	1/10W
△ R524	1-249-393-11	CARBON	10	5%	1/4W F
△ R525	1-249-393-11	CARBON	10	5%	1/4W F
R526	1-208-764-11	RES-CHIP	180	2%	1/10W
					(FORMER TYPE)
R526	1-216-013-00	METAL CHIP	33	5%	1/10W
					(NEW TYPE)
△ R527	1-240-855-11	CARBON	6.2K	5%	1/4W
R528	1-208-798-11	RES-CHIP	4.7K	2%	1/10W
					(FORMER TYPE)
R528	1-216-062-00	METAL CHIP	3.6K	5%	1/10W
					(NEW TYPE)
R529	1-216-089-00	RES-CHIP	47K	5%	1/10W
△ R530	1-249-393-11	CARBON	10	5%	1/4W F
R532	1-216-073-00	METAL CHIP	10K	5%	1/10W
R533	1-216-065-00	RES-CHIP	4.7K	5%	1/10W
△ R534	1-249-393-11	CARBON	10	5%	1/4W F
R539	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R540	1-208-782-11	RES-CHIP	1K	2%	1/10W
R541	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R542	1-216-073-00	METAL CHIP	10K	5%	1/10W
R543	1-208-814-11	RES-CHIP	22K	2%	1/10W
R551	1-208-782-11	RES-CHIP	1K	2%	1/10W
R552	1-208-826-11	RES-CHIP	68K	2%	1/10W
R553	1-249-967-11	CARBON	68K	5%	1/4W
R554	1-259-179-31	CARBON	3.3K	5%	1/4W

Ref. No.	Part No.	Description	Remark		
R556	1-208-435-61	RES-CHIP 820	2%	1/10W	
				(FORMER TYPE)	
R557	1-208-784-11	RES-CHIP 1.2K	2%	1/10W	
				(FORMER TYPE)	
R559	1-216-295-00	SHORT 0			
R571	1-216-055-00	METAL CHIP 1.8K	5%	1/10W	
				(FORMER TYPE)	
R571	1-216-057-00	METAL CHIP 2.2K	5%	1/10W	
				(NEW TYPE)	
R572	1-216-077-00	RES-CHIP 15K	5%	1/10W	
R573	1-216-093-00	RES-CHIP 68K	5%	1/10W	
△ R574	1-249-393-11	CARBON 10	5%	1/4W	F
△ R575	1-249-393-11	CARBON 10	5%	1/4W	F
R576	1-208-764-11	RES-CHIP 180	2%	1/10W	
				(FORMER TYPE)	
R576	1-216-013-00	METAL CHIP 33	5%	1/10W	
				(NEW TYPE)	
△ R577	1-240-855-11	CARBON 6.2K	5%	1/4W	
R578	1-208-798-11	RES-CHIP 4.7K	2%	1/10W	
				(FORMER TYPE)	
R578	1-216-062-00	METAL CHIP 3.6K	5%	1/10W	
				(NEW TYPE)	
R579	1-216-089-00	RES-CHIP 47K	5%	1/10W	
△ R580	1-249-393-11	CARBON 10	5%	1/4W	F
△ R591	1-249-393-11	CARBON 10	5%	1/4W	F
△ R592	1-249-393-11	CARBON 10	5%	1/4W	F
R594	1-216-065-00	RES-CHIP 4.7K	5%	1/10W	
R601	1-208-782-11	RES-CHIP 1K	2%	1/10W	
R602	1-208-826-11	RES-CHIP 68K	2%	1/10W	
R603	1-249-967-11	CARBON 68K	5%	1/4W	
R604	1-259-179-31	CARBON 3.3K	5%	1/4W	
R606	1-208-435-61	RES-CHIP 820	2%	1/10W	
				(FORMER TYPE)	
R607	1-208-784-11	RES-CHIP 1.2K	2%	1/10W	
				(FORMER TYPE)	
R609	1-216-295-00	SHORT 0			
R621	1-216-055-00	METAL CHIP 1.8K	5%	1/10W	
				(FORMER TYPE)	
R621	1-216-057-00	METAL CHIP 2.2K	5%	1/10W	
				(NEW TYPE)	
R622	1-216-077-00	RES-CHIP 15K	5%	1/10W	
R623	1-216-093-00	RES-CHIP 68K	5%	1/10W	
△ R624	1-249-393-11	CARBON 10	5%	1/4W	F
△ R625	1-249-393-11	CARBON 10	5%	1/4W	F
R626	1-208-764-11	RES-CHIP 180	2%	1/10W	
				(FORMER TYPE)	
R626	1-216-013-00	METAL CHIP 33	5%	1/10W	
				(NEW TYPE)	
△ R627	1-240-855-11	CARBON 6.2K	5%	1/4W	
R628	1-208-798-11	RES-CHIP 4.7K	2%	1/10W	
				(FORMER TYPE)	
R628	1-216-062-00	METAL CHIP 3.6K	5%	1/10W	
				(NEW TYPE)	
R629	1-216-089-00	RES-CHIP 47K	5%	1/10W	
△ R630	1-249-393-11	CARBON 10	5%	1/4W	F
R632	1-216-073-00	METAL CHIP 10K	5%	1/10W	
R633	1-216-065-00	RES-CHIP 4.7K	5%	1/10W	
△ R634	1-249-393-11	CARBON 10	5%	1/4W	F

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

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以阴影和 △ 标志来识别的零部件，在安全方面具有关键性。因此只能以规定号码的零部件来更换。

## POWER-AMP

## ROTARY

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R643	1-208-814-11	RES-CHIP	22K 2% 1/10W	△ R777	1-240-855-11	CARBON 6.2K 5% 1/4W	
R652	1-208-826-11	RES-CHIP	68K 2% 1/10W	R778	1-208-798-11	RES-CHIP 4.7K 2% 1/10W	(FORMER TYPE)
R682	1-216-073-00	METAL CHIP	10K 5% 1/10W				
R683	1-216-065-00	RES-CHIP	4.7K 5% 1/10W	R778	1-216-062-00	METAL CHIP 3.6K 5% 1/10W	(NEW TYPE)
△ R684	1-249-393-11	CARBON	10 5% 1/4W F	R779	1-216-089-00	RES-CHIP 47K 5% 1/10W	
R701	1-208-782-11	RES-CHIP	1K 2% 1/10W	△ R780	1-249-393-11	CARBON 10 5% 1/4W F	
R702	1-208-826-11	RES-CHIP	68K 2% 1/10W				
R703	1-249-967-11	CARBON	68K 5% 1/4W				
R704	1-259-179-31	CARBON	3.3K 5% 1/4W				
R706	1-208-435-61	RES-CHIP	820 2% 1/10W				
			(FORMER TYPE)				
R707	1-208-784-11	RES-CHIP	1.2K 2% 1/10W				
			(FORMER TYPE)				
R709	1-216-295-00	SHORT	0				
R721	1-216-055-00	METAL CHIP	1.8K 5% 1/10W				
			(FORMER TYPE)				
R721	1-216-057-00	METAL CHIP	2.2K 5% 1/10W				
			(NEW TYPE)				
R722	1-216-077-00	RES-CHIP	15K 5% 1/10W				
R723	1-216-093-00	RES-CHIP	68K 5% 1/10W				
△ R724	1-249-393-11	CARBON	10 5% 1/4W F				
△ R725	1-249-393-11	CARBON	10 5% 1/4W F				
R726	1-208-764-11	RES-CHIP	180 2% 1/10W				
			(FORMER TYPE)				
R726	1-216-013-00	METAL CHIP	33 5% 1/10W				
			(NEW TYPE)				
△ R727	1-240-855-11	CARBON	6.2K 5% 1/4W				
R728	1-208-798-11	RES-CHIP	4.7K 2% 1/10W				
			(FORMER TYPE)				
R728	1-216-062-00	METAL CHIP	3.6K 5% 1/10W				
			(NEW TYPE)				
R729	1-216-089-00	RES-CHIP	47K 5% 1/10W				
△ R730	1-249-393-11	CARBON	10 5% 1/4W F				
R732	1-216-073-00	METAL CHIP	10K 5% 1/10W				
R733	1-216-065-00	RES-CHIP	4.7K 5% 1/10W				
△ R734	1-249-393-11	CARBON	10 5% 1/4W F				
R743	1-208-814-11	RES-CHIP	22K 2% 1/10W				
R751	1-208-782-11	RES-CHIP	1K 2% 1/10W				
R752	1-208-826-11	RES-CHIP	68K 2% 1/10W				
R753	1-249-967-11	CARBON	68K 5% 1/4W				
R754	1-259-179-31	CARBON	3.3K 5% 1/4W				
R756	1-208-435-61	RES-CHIP	820 2% 1/10W				
			(FORMER TYPE)				
R757	1-208-784-11	RES-CHIP	1.2K 2% 1/10W				
			(FORMER TYPE)				
R759	1-216-295-00	SHORT	0				
R771	1-216-055-00	METAL CHIP	1.8K 5% 1/10W				
			(FORMER TYPE)				
R771	1-216-057-00	METAL CHIP	2.2K 5% 1/10W				
			(NEW TYPE)				
R772	1-216-077-00	RES-CHIP	15K 5% 1/10W				
R773	1-216-093-00	RES-CHIP	68K 5% 1/10W				
△ R774	1-249-393-11	CARBON	10 5% 1/4W F				
△ R775	1-249-393-11	CARBON	10 5% 1/4W F				
R776	1-208-764-11	RES-CHIP	180 2% 1/10W				
			(FORMER TYPE)				
R776	1-216-013-00	METAL CHIP	33 5% 1/10W				
			(NEW TYPE)				

&lt; VARIABLE RESISTOR &gt;

RV501	1-238-598-11	RES, ADJ, CARBON 2.2K (NEW TYPE)
RV501	1-241-760-11	RES, ADJ, CARBON 470 (FORMER TYPE)
RV551	1-238-598-11	RES, ADJ, CARBON 2.2K (NEW TYPE)
RV551	1-241-760-11	RES, ADJ, CARBON 470 (FORMER TYPE)
RV601	1-238-598-11	RES, ADJ, CARBON 2.2K (NEW TYPE)
RV601	1-241-760-11	RES, ADJ, CARBON 470 (FORMER TYPE)
RV701	1-238-598-11	RES, ADJ, CARBON 2.2K (NEW TYPE)
RV701	1-241-760-11	RES, ADJ, CARBON 470 (FORMER TYPE)
RV751	1-238-598-11	RES, ADJ, CARBON 2.2K (NEW TYPE)
RV751	1-241-760-11	RES, ADJ, CARBON 470 (FORMER TYPE)

&lt; RELAY &gt;

RY501	1-515-793-11	RELAY
RY601	1-515-920-11	RELAY (24V)
RY651	1-515-793-11	RELAY
RY701	1-515-920-11	RELAY (24V)

&lt; TEST PIN &gt;

* TP501	1-564-505-11	PLUG, CONNECTOR 2P
* TP551	1-564-505-11	PLUG, CONNECTOR 2P
* TP601	1-564-505-11	PLUG, CONNECTOR 2P
* TP701	1-564-505-11	PLUG, CONNECTOR 2P
* TP751	1-564-505-11	PLUG, CONNECTOR 2P

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A-4473-463-A ROTARY BOARD, COMPLETE  
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&lt; CONNECTOR &gt;

CNP106	1-784-923-11	PIN, CONNECTOR 7P
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&lt; DIODE &gt;

D121	8-719-032-98	DIODE SEL5820A-TP15(AUDIO SPLIT)
D123	8-719-032-98	DIODE SEL5820A-TP15(MUTING)

&lt; RESISTOR &gt;

R102	1-216-029-00	METAL CHIP 150 5% 1/10W
R103	1-216-029-00	METAL CHIP 150 5% 1/10W
R158	1-216-053-00	METAL CHIP 1.5K 5% 1/10W
R159	1-216-057-00	METAL CHIP 2.2K 5% 1/10W
R160	1-216-065-00	RES-CHIP 4.7K 5% 1/10W

&lt; VARIABLE RESISTOR &gt;

RV101	1-418-589-11	ENCODER, ROTARY(FUNCTION)
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&lt; SWITCH &gt;

S126	1-771-349-21	SWITCH, KEYBOARD(INPUT MODE)
S127	1-771-349-21	SWITCH, KEYBOARD(MUTING)
S135	1-771-349-21	SWITCH, KEYBOARD(AUDIO SPRIT)

\*\*\*\*\*

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以阴影和 △ 标志来识别的零部件，在安全方面具有关键性。因此只能以规定号码的零部件来更换。

SURR SP

S-VIDEO

Ref. No.	Part No.	Description	Remark
	1-677-227-11	SURR SP BOARD *****	
		< CAPACITOR >	
C514	1-137-503-11	MYLAR 0.0001uF 5% 50V (EXCEPT US,CND,E,PX,EA)	
C564	1-137-503-11	MYLAR 0.0001uF 5% 50V (EXCEPT US,CND,E,PX,EA)	
C606	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C607	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C610	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C614	1-137-503-11	MYLAR 0.0001uF 5% 50V (EXCEPT US,CND,E,PX,EA)	
C615	1-136-357-11	MYLAR 680PF 5% 50V (EXCEPT US,CND,E,PX,EA) (NEW TYPE)	
C615	1-137-503-11	MYLAR 0.0001uF 5% 50V (EXCEPT US,CND,E,PX,EA) (FORMER TYPE)	
C616	1-163-117-00	CERAMIC CHIP 100PF 5% 50V (FORMER TYPE)	
C616	1-163-117-00	CERAMIC CHIP 100PF 5% 50V (US,CND,E,PX,EA) (NEW TYPE)	
C616	1-163-259-91	CERAMIC CHIP 220PF 5% 50V (EXCEPT US,CND,E,PX,EA) (NEW TYPE)	
C664	1-137-503-11	MYLAR 0.0001uF 5% 50V (EXCEPT US,CND,E,PX,EA)	
C714	1-137-503-11	MYLAR 0.0001uF 5% 50V (EXCEPT US,CND,E,PX,EA)	
C715	1-137-503-11	MYLAR 0.0001uF 5% 50V (EXCEPT US,CND,E,PX,EA) (FORMER TYPE)	
C715	1-136-357-11	MYLAR 680PF 5% 50V (EXCEPT US,CND,E,PX,EA) (NEW TYPE)	
C716	1-163-117-00	CERAMIC CHIP 100PF 5% 50V (FORMER TYPE)	
C716	1-163-117-00	CERAMIC CHIP 100PF 5% 50V (US,CND,E,PX,EA) (NEW TYPE)	
C716	1-163-259-91	CERAMIC CHIP 220PF 5% 50V (EXCEPT US,CND,E,PX,EA) (NEW TYPE)	
C764	1-137-503-11	MYLAR 0.0001uF 5% 50V (EXCEPT US,CND,E,PX,EA)	
C765	1-136-357-11	MYLAR 680PF 5% 50V (EXCEPT US,CND,E,PX,EA) (NEW TYPE)	
C765	1-137-503-11	MYLAR 0.0001uF 5% 50V (EXCEPT US,CND,E,PX,EA) (FORMER TYPE)	
C766	1-163-117-00	CERAMIC CHIP 100PF 5% 50V (FORMER TYPE)	
C766	1-163-117-00	CERAMIC CHIP 100PF 5% 50V (US,CND,E,PX,EA) (NEW TYPE)	
C766	1-163-259-91	CERAMIC CHIP 220PF 5% 50V (EXCEPT US,CND,E,PX,EA) (NEW TYPE)	
		< JACK >	
J501	1-793-345-21	JACK, PIN 6P(PREOUT)	
J502	1-794-436-11	JACK, PIN 1P(CENTER SP)	
		< COIL >	
L601	1-419-666-11	COIL, AIR-CORE	
L701	1-419-666-11	COIL, AIR-CORE	
L751	1-419-666-11	COIL, AIR-CORE	

Ref. No.	Part No.	Description	Remark
		< RESISTOR >	
R514	1-216-687-11	METAL CHIP 33K 0.5% 1/10W	
R515	1-208-784-11	RES-CHIP 1.2K 2% 1/10W	
R564	1-216-687-11	METAL CHIP 33K 0.5% 1/10W	
R565	1-208-784-11	RES-CHIP 1.2K 2% 1/10W	
R614	1-216-687-11	METAL CHIP 33K 0.5% 1/10W	
R615	1-208-784-11	RES-CHIP 1.2K 2% 1/10W	
△ R616	1-249-393-11	CARBON 10 5% 1/4W F (EXCEPT US,CND,E,PX,EA)	
△ R631	1-249-389-11	CARBON 4.7 5% 1/4W F	
R664	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R714	1-216-687-11	METAL CHIP 33K 0.5% 1/10W	
R715	1-208-784-11	RES-CHIP 1.2K 2% 1/10W	
△ R716	1-249-393-11	CARBON 10 5% 1/4W F (EXCEPT US,CND,E,PX,EA)	
△ R731	1-249-389-11	CARBON 4.7 5% 1/4W F	
R764	1-216-687-11	METAL CHIP 33K 0.5% 1/10W	
R765	1-208-784-11	RES-CHIP 1.2K 2% 1/10W	
△ R766	1-249-393-11	CARBON 10 5% 1/4W F (EXCEPT US,CND,E,PX,EA)	
△ R781	1-249-389-11	CARBON 4.7 5% 1/4W F	
		< TERMINAL >	
TM601	1-694-431-21	TERMINAL BOARD (SP)(CENTER, REAR) *****	
A-4473-480-A		S-VIDEO BOARD, COMPLETE ***** (EXCEPT US,CND,TW)	
A-4473-467-A		S-VIDEO BOARD, COMPLETE(US,CND) *****	
A-4473-498-A		S-VIDEO BOARD, COMPLETE(TW) *****	
		< CAPACITOR >	
C217	1-163-021-11	CERAMIC CHIP 0.01uF 10% 50V	
C218	1-165-319-11	CERAMIC CHIP 0.1uF 50V	
C219	1-126-964-11	ELECT 10uF 20% 50V	
C220	1-165-319-11	CERAMIC CHIP 0.1uF 50V	
C221	1-126-964-11	ELECT 10uF 20% 50V	
C222	1-163-243-11	CERAMIC CHIP 47PF 5% 50V	
C223	1-163-243-11	CERAMIC CHIP 47PF 5% 50V	
C224	1-165-319-11	CERAMIC CHIP 0.1uF 50V	
C225	1-126-964-11	ELECT 10uF 20% 50V	
C226	1-163-243-11	CERAMIC CHIP 47PF 5% 50V	
C227	1-163-243-11	CERAMIC CHIP 47PF 5% 50V	
C228	1-165-319-11	CERAMIC CHIP 0.1uF 50V	
C229	1-126-964-11	ELECT 10uF 20% 50V	
C230	1-136-165-00	MYLAR 0.1uF 5% 50V	
C231	1-126-925-11	ELECT 470uF 20% 10V	
C234	1-165-319-11	CERAMIC CHIP 0.1uF 50V	
C236	1-126-933-11	ELECT 100uF 20% 16V	
C237	1-165-319-11	CERAMIC CHIP 0.1uF 50V	
C238	1-126-933-11	ELECT 100uF 20% 16V	
C239	1-165-319-11	CERAMIC CHIP 0.1uF 50V	

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

以阴影和 △ 标志来识别的零部件，在安全方面具有关键性。因此只能以规定号码的零部件来更换。

## S-VIDEO

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C240	1-126-933-11	ELECT	100uF 20% 16V			< DIODE >	
C241	1-165-319-11	CERAMIC CHIP	0.1uF 50V	D201	8-719-801-78	DIODE 1SS184-TE85L	
C242	1-165-319-11	CERAMIC CHIP	0.1uF 50V	D206	8-719-988-61	DIODE 1SS355TE-17	
C243	1-126-933-11	ELECT	100uF 20% 16V			< FERRITE BEAD >	
C244	1-126-964-11	ELECT	10uF 20% 50V				
C245	1-165-319-11	CERAMIC CHIP	0.1uF 50V (EXCEPT US,CND,TW)	FB202	1-216-295-00	SHORT	0(EXCEPT US,CND,TW)
C246	1-104-664-11	ELECT	47uF 20% 16V (EXCEPT US,CND,TW)			< IC >	
C247	1-126-962-11	ELECT	3.3uF 20% 50V (EXCEPT US,CND,TW)	IC202	8-759-536-24	IC NJM-2296M-TE2	
C248	1-126-964-11	ELECT	10uF 20% 50V	IC203	8-759-536-24	IC NJM-2296M-TE2	
C249	1-163-021-11	CERAMIC CHIP	0.01uF 10% 50V	IC204	8-759-822-05	IC LA7213(EXCEPT US,CND,TW)	
C251	1-126-962-11	ELECT	3.3uF 20% 50V (EXCEPT US,CND,TW)	IC205	8-759-822-05	IC LA7213(EXCEPT US,CND,TW)	
C252	1-126-964-11	ELECT	10uF 20% 50V	IC209	8-759-647-08	IC MB90089PF-234-ER	
C262	1-126-964-11	ELECT	10uF 20% 50V	IC210	8-759-682-76	IC BA7622F-E2	
C263	1-126-964-11	ELECT	10uF 20% 50V			< JACK >	
C264	1-163-235-11	CERAMIC CHIP	22PF 5% 50V (US,CND,TW)	J207	1-563-330-11	JACK(CONTROL A1 II)	
C265	1-163-091-00	CERAMIC CHIP	8PF 50V (US,CND,TW)	J208	1-779-801-11	CONNECTOR (ROUND TYPE)(VIDEO 1)	
C266	1-165-319-11	CERAMIC CHIP	0.1uF 50V	J209	1-779-801-11	CONNECTOR (ROUND TYPE)(VIDEO 2)	
C267	1-163-239-11	CERAMIC CHIP	33PF 5% 50V (FORMER TYPE)	J210	1-779-801-11	CONNECTOR (ROUND TYPE)(TV/SAT/DVD/LD)	
C267	1-163-241-11	CERAMIC CHIP	39PF 5% 50V (NEW TYPE)	J211	1-779-800-11	TERMINAL, S(MONITOR)	
C268	1-163-227-11	CERAMIC CHIP	10PF 0.50PF 50V			< JUMPER RESISTOR >	
C269	1-165-319-11	CERAMIC CHIP	0.1uF 50V	JR201	1-216-295-00	SHORT	0
C270	1-104-664-11	ELECT	47uF 20% 16V	JR203	1-216-296-00	SHORT	0
C271	1-163-117-00	CERAMIC CHIP	100PF 5% 50V	JR204	1-216-296-00	SHORT	0
C272	1-126-964-11	ELECT	10uF 20% 50V	JR205	1-216-296-00	SHORT	0
C273	1-163-021-11	CERAMIC CHIP	0.01uF 10% 50V	JR206	1-216-296-00	SHORT	0
C274	1-126-964-11	ELECT	10uF 20% 50V	JR208	1-216-296-00	SHORT	0
C275	1-165-319-11	CERAMIC CHIP	0.1uF 50V	JR251	1-216-296-00	SHORT	0(EXCEPT US,CND,TW)
C276	1-104-664-11	ELECT	47uF 20% 16V			< COIL >	
C277	1-163-021-11	CERAMIC CHIP	0.01uF 10% 50V	L201	1-500-425-11	FERRITE	0uH
C279	1-163-021-11	CERAMIC CHIP	0.01uF 10% 50V	L202	1-500-425-11	FERRITE	0uH
C2001	1-163-243-11	CERAMIC CHIP	47PF 5% 50V	L203	1-500-425-11	FERRITE	0uH
C2002	1-163-243-11	CERAMIC CHIP	47PF 5% 50V	L204	1-500-425-11	FERRITE	0uH
C2004	1-165-319-11	CERAMIC CHIP	0.1uF 50V	L205	1-408-781-00	INDUCTOR CHIP 22uH	
C2006	1-163-021-11	CERAMIC CHIP	0.01uF 10% 50V (EXCEPT US,CND,TW)			< TRANSISTOR >	
		< CONNECTOR >		Q202	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
CNP201	1-750-180-11	PIN, CONNECTOR (PC BOARD) 5P (EXCEPT US,CND,TW)		Q203	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
CNP202	1-568-826-11	CONNECTOR, FFC 7P(EXCEPT US,CND)				< RESISTOR >	
CNP202	1-784-774-11	CONNECTOR, FFC 13P(US,CND)		R212	1-216-022-00	METAL CHIP	75 5% 1/10W
CNP204	1-784-921-11	PIN, CONNECTOR 4P		R213	1-216-022-00	METAL CHIP	75 5% 1/10W
CNS201	1-568-830-11	CONNECTOR, FFC 11P		R214	1-216-022-00	METAL CHIP	75 5% 1/10W
CNS203	1-568-826-11	CONNECTOR, FFC 7P(US,CND)		R215	1-216-022-00	METAL CHIP	75 5% 1/10W
		< TRIMMER >		R216	1-216-022-00	METAL CHIP	75 5% 1/10W
CT203	1-141-442-91	CAP, CERAMIC TRIMMER 20PF(US,CND,TW)		R217	1-216-022-00	METAL CHIP	75 5% 1/10W
CT204	1-141-442-91	CAP, CERAMIC TRIMMER 20PF		R218	1-216-022-00	METAL CHIP	75 5% 1/10W
				R219	1-216-022-00	METAL CHIP	75 5% 1/10W
				R220	1-216-022-00	METAL CHIP	75 5% 1/10W
				R221	1-216-022-00	METAL CHIP	75 5% 1/10W
				R222	1-216-022-00	METAL CHIP	75 5% 1/10W
				R223	1-216-022-00	METAL CHIP	75 5% 1/10W
				R224	1-216-022-00	METAL CHIP	75 5% 1/10W
				R225	1-216-022-00	METAL CHIP	75 5% 1/10W



S-VIDEO

VOL

V-SEL

Ref. No.	Part No.	Description	Remark		
R226	1-216-097-00	RES-CHIP	100K	5%	1/10W
R227	1-216-097-00	RES-CHIP	100K	5%	1/10W
R228	1-216-097-00	RES-CHIP	100K	5%	1/10W
R229	1-216-097-00	RES-CHIP	100K	5%	1/10W
R230	1-216-097-00	RES-CHIP	100K	5%	1/10W
R231	1-216-001-00	METAL CHIP	10	5%	1/10W
R232	1-216-001-00	METAL CHIP	10	5%	1/10W
R233	1-216-001-00	METAL CHIP	10	5%	1/10W
R235	1-216-105-00	RES-CHIP	220K	5%	1/10W (EXCEPT US,CND,TW)
R236	1-216-105-00	RES-CHIP	220K	5%	1/10W (EXCEPT US,CND,TW)
R237	1-216-037-00	METAL CHIP	330	5%	1/10W (EXCEPT US,CND,TW)
R238	1-216-037-00	METAL CHIP	330	5%	1/10W (EXCEPT US,CND,TW)
R245	1-216-063-00	RES-CHIP	3.9K	5%	1/10W
R246	1-216-089-00	RES-CHIP	47K	5%	1/10W
R247	1-216-089-00	RES-CHIP	47K	5%	1/10W
R248	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R249	1-216-089-00	RES-CHIP	47K	5%	1/10W
R250	1-216-089-00	RES-CHIP	47K	5%	1/10W
R251	1-216-035-00	METAL CHIP	270	5%	1/10W (US,CND,TW)
R252	1-216-065-00	RES-CHIP	4.7K	5%	1/10W
R254	1-216-073-00	METAL CHIP	10K	5%	1/10W
R255	1-216-049-11	RES-CHIP	1K	5%	1/10W
R278	1-216-022-00	METAL CHIP	75	5%	1/10W
R279	1-216-022-00	METAL CHIP	75	5%	1/10W
< TEST PIN >					
TP201	1-784-921-11	PIN, CONNECTOR 4P			
< VIBRATOR >					
X202	1-781-821-21	VIBRATOR, CRYSTAL(14.31818MHz) (US,CND,TW)			
*****					
	1-677-218-11	VOL BOARD *****			
< CAPACITOR >					
C119	1-136-287-11	CERAMIC CHIP	4700PF	10%	50V (FORMER TYPE)
C120	1-126-964-11	ELECT	10uF	20%	50V (NEW TYPE)
< CONNECTOR >					
CNP105	1-770-389-11	PIN, CONNECTOR(PC BOARD) 5P			
< DIODE >					
D105	8-719-422-12	DIODE UDZ-TE-17-3.9B FORMER TYPE)			

Ref. No.	Part No.	Description	Remark		
< RESISTOR >					
R157	1-216-083-00	METAL CHIP	27K	5%	1/10W (FORMER TYPE)
R190	1-216-053-00	METAL CHIP	1.5K	5%	1/10W (FORMER TYPE)
< VARIABLE RESISTOR >					
RV103	1-227-182-11	RES, VAR, CARBON 10K/10K(MASTER VOLUME) (FORMER TYPE)			
RV103	1-227-182-12	RES, VAR, CARBON 10K/10K(MASTER VOLUME) (NEW TYPE)			
*****					
	1-677-214-11	V-SEL BOARD	(V555:E,PX,EA)		
*****					
	1-533-223-11	HOLDER, FUSE			
< CONNECTOR >					
CNP905	1-568-106-11	PIN, CONNECTOR 4P(E,PX,EA)			
< FUSE >					
△ F904	1-532-465-51	FUSE, TIME LAG 2.5A/250V(E,PX,EA)			
< SWITCH >					
△ S901	1-571-437-21	SWITCH, POWER(VOLTAGE SELECTOR)(E,PX,EA)			
*****					
MISCELLANEOUS					
*****					
33	1-773-050-11	WIRE (FLAT TYPE) (17 CORE)			
34	1-769-903-11	WIRE (FLAT TYPE) (7 CORE)			
		(V555:AEP,UK,CIS,AUS,EE,MY,SP,E,PX,EA,HK,TW,CH)			
34	1-769-999-11	WIRE (FLAT TYPE) (13 CORE)			
		(V333/V444/V555:US,CND)			
△ 68	1-559-479-11	CORD, POWER(V333/V444/V555:US,CND,TW)			
△ 68	1-575-953-11	CORD, POWER			
		(V555:AEP,UK,CIS,AUS,EE,MY,SP,HK,E,PX,EA)			
△ 68	1-782-464-21	CORD, POWER(V555:CH)			
74	1-769-939-11	WIRE (FLAT TYPE) (11 CORE)			
75	1-765-315-11	WIRE (FLAT TYPE) (7 CORE)(V444/V555:US,CND)			
75	1-769-888-11	WIRE (FLAT TYPE) (7 CORE)(V333)			
76	1-773-037-11	WIRE (FLAT TYPE) (17 CORE)			
77	1-773-008-11	WIRE (FLAT TYPE) (15 CORE)			
△ T901	1-435-448-11	TRANSFORMER, POWER(V444/V555:US,CND)			
△ T901	1-435-449-11	TRANSFORMER, POWER			
		(V555:AEP,UK,CIS,AUS,EE,MY,SP,HK,CH)			
△ T901	1-435-450-11	TRANSFORMER, POWER(V555:E,PX,EA)			
△ T901	1-435-588-11	TRANSFORMER, POWER(V555:TW)			
△ T901	1-435-686-11	TRANSFORMER, POWER(V333)			
TU301	1-693-407-23	TUNER			
		(V333/V444/V555:US,CND,E,PX,EA,TW)			
TU301	1-693-409-23	TUNER(V555:UK,CIS,AUS,EE,MY,SP,HK)			
TU301	1-693-409-24	TUNER(V555:AEP,CH)			
*****					

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.	以阴影和 △标志来识别的零部件，在安全方面具有关键性。因此只能以规定号码的零部件来更换。
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Ref. No.	Part No.	Description	Remark
		ACCESSORIES	
		*****	
	1-418-865-11	REMOTE COMMANDER (RM-TP504)(V555)	
	1-418-866-13	REMOTE COMMANDER (RM-LJ304) (V333,V444)	
	1-476-232-11	REMOTE COMMANDER (RM-US104) (V444/V555:US,CND)	
	1-501-374-11	ANTENNA, LOOP (AM)	
	1-501-594-11	ANTENNA (FM) (V555:AEP,UK,CIA,AUS,EA,MY,SP,HK,CH)	
	1-528-174-31	BATTERY, LITHIUM (CR2032 TYPE)(V555)	
	1-777-172-11	CORD, CONNECTION (MINI PLUG 1m)(US,CND)	
	1-777-560-11	CORD, CONNECTION (PIN PLUG 1.5m)(US,CND)	
	1-793-184-21	CONNECTOR (F TYPE ADAPTOR) (V333,V444/V555:E,PX,EA,TW)	
	4-210-990-01	LID BATTERY CASE (FOR RM-LJ304)(V333,V444)	
	4-227-951-13	MANUAL, INSTRUCTION(ENGLISH) (V555)	
	4-227-951-22	MANUAL, INSTRUCTION(FRENCH,SPANISH) (V555:US,CND,AEP,CIA,AUS,EE,MY,SP, HK,E,PX,EA)	
	4-227-951-31	MANUAL, INSTRUCTION(CHINESE) (V555:E,PX,EA,TW,CH)	
	4-227-951-41	MANUAL, INSTRUCTION (DUTCH,SWEDISH,GERMAN,ITALIAN, PORTUGUESE) (V555:AEP,UK,CIA,AUS,EE,MY,SP,HK)	
	4-228-696-01	COVER, BATTERY (FOR RM-US104) (V444/V555: US, CND)	
	4-230-063-11	MANUAL, INSTRUCTION(ENGLISH) (V555)	
	4-230-063-21	MANUAL, INSTRUCTION(FRENCH) (V555:US,CND,AEP,CIA,AUS,EE,MY,SP, HK,E,PX,EA)	
	4-230-063-31	MANUAL, INSTRUCTION(SPANISH,CHINESE) (V555:E,PX,EA)	
	4-230-063-41	MANUAL, INSTRUCTION(CHINESE) (V555:TW,CH)	
	4-230-063-51	MANUAL, INSTRUCTION (SPANISH,DUTCH,SWEDISH) (V555:AEP,UK,CIA,AUS,EE,MY,SP,HK)	
	4-230-063-61	MANUAL, INSTRUCTION (GERMAN,ITALIAN,PORTUGUESE) (V555:AEP,UK,CIA,AUS,EE,MY,SP,HK)	
	4-230-072-11	MANUAL, INSTRUCTION(ENGLISH) (V333,V444)	
	4-230-072-21	MANUAL, INSTRUCTION(FRENCH) (V333,V444)	
	4-997-648-01	COVER, BATTERY (FOR RM-TP504)(V555)	
		*****	
		*****	
		HARDWARE LIST	
		*****	
#1	7-685-234-19	SCREW +KTP 2.6X8 TYPE2 NON-SLIT	
#2	7-685-236-19	SCREW +KTP 2.6X12 TYPE2 NON-SLIT	
#3	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
#4	7-685-853-04	SCREW +BVTT 2X6 (S)	
#5	7-685-881-09	SCREW +BVTT 4X8 (S)	
#6	7-685-885-09	SCREW +BVTT 4X16 (S)	

## REVISION HISTORY

Clicking the version allows you to jump to the revised page.

Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2000.06	New
1.1	2001.04	CORRECTION-1 : DSP TEST MODE is deleted (SFD-01004)
1.2	2002.01	Chenge of idling current adjustment value. Change of all boards: Mentioned as a new type in schematic digram, printed diagram and electrical parts list. (SPM-01058)